DOCUMENT RESUME

ED 134 106 HE 008 587

AUTHOR Agor, Weston H.
TITLE Financing the Next Decade of Higher Education in Michigan: A Staff Report Projecting State Enrollment, Cost, and Revenue Trends to 1980 and 1985.
INSTITUTION Michigan State Dept. of Education, Lansing. Higher Education Management Services.
PUB DATE Nov 75
NOTE 137p.
AVAILABLE FROM Higher Education Management Services, Michigan State Department of Education, Lansing, Michigan 48902

EDRS PRICE MF-$0.83 HC-$7.35 Plus Postage.
DESCRIPTORS Data Analysis; Decision Making; *Educational Finance; *Enrollment Projections; Enrollment Trends; Federal Aid; Finance Reform; *Financial Needs; Financial Policy; *Higher Education; *Instructional Student Costs; Private Colleges; State Aid; State Colleges; State Federal Aid; State Universities: Tables (Data); *Undergraduate Study; Universities
IDENTIFIERS *Michigan

ABSTRACT

Higher Education Management Services contributes to the decisionmaking process in Michigan higher education by providing data and information on the past, present, and future financial status of higher education in the states. The report presents comparative statewide data and objective analysis of higher education in the state for both public and independent institutions at all levels, although analysis emphasizes public baccalaureate because of their overall importance in the state's higher education system at present. The focus is on projecting future enrollment, cost, and revenue trends to 1980 and 1985. The major conclusions of the study are: (1) that there is an obvious need for greater state and federal support for higher education institutions in Michigan over the next decade; (2) present funding policies should be modified in the near-term to include support for a funding formula by level of instruction and by program as cost data permits; and in the long-term, enrollment-related funding formulas should be modified to give consideration to funding particular programs and services apart from total enrollments; (3) enrollment gains over the next decade will be relatively modest and are expected to decline by 1985. The report considers each conclusion in detail and ends with a discussion of alternative policy options for decision-makers to weigh and evaluate in light of the analysis contained in the report. (JMF)

Documents acquired by ERIC include many informal unpublished materials not available from other sources. ERIC makes every effort to obtain the best copy available. Nevertheless, items of marginal reproducibility are often encountered and this affects the quality of the microfiche and hardcopy reproductions ERIC makes available via the ERIC Document Reproduction Service (EDRS). EDRS is not responsible for the quality of the original document. Reproductions supplied by EDRS are the best that can be made from the original.

ED134106

FINANCING THE NEXT DECADE OF HIGHER EDUCATION IN MICHIGAN: A STAFF REPORT PROJECTING STATE ENROLLMENT, COST, AND REVENUE TRENDS TO 1980 AND 1985

by
Weston H. Agor

U S DEPARTMENT OF HEALTH, EDUCATION & WELFARE
NATIONAL INSTITUTE OF EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL NATIONAL INSTITUTE OF EDUCATION POSITION OR POLICY

HE 00 85 427

HIGHER EDUCATION MANAGEMENT SERVICES
MICHIGAN DEPARTMENT OF EDUCATION
November, 1975
(3rd Edition)

TABLE OF CONTENTS

	PREFACE	i-iii
	METHODOLOGICAL NOTE	iv-vii
	LIST OF TABLES	viii-x
	LIST OF FIGURES	xi
I.	INTRODUCTION	1
II.	MAJOR CONCLUSIONS OF THE STUDY	9
III.	DETAILED DISCUSSION OF EACH CONCLUSION	12
	A. Enrollment Projections to 1980 and 1985	12
	B. The Rise of Public and Private Higher Education Expenditures	13
	C. Projections of Higher Education Enrollments, State Support, and Education Costs to 1980 and 1985	30
	D. Alternative Public Policies for Financing of Higher Education in Michigan to 1980 and 1985	44
IV.	APPENDIX	49

PREFACE

If present trends in enrollment, inflation, and financial support continue, the future of each and every higher education institution in Michigan in the decade ahead will depend on the strong and cooperative leadership, careful planning, wise adjustments, and intelligent policy-making of the higher education institutions themselves, the Executive Office, the Legislature, and the State Board of Education.

But, in order to have intelligent decision-making, policy-makers must have at their fingertips adequate information as to the past, present, and future financial status of higher education in Michigan. Higher Education Management Services seeks to contribute to the decision-making process by providing comparative statewide data and objective analysis on higher education in the state for both public and independent institutions at all levels.

This study is the second in a series of major long-term analyses completed accordingly. The first study focused primarily on the past financing of public baccalaureate institutions in the state for the entire decade 1965-1974 (some analysis of facilities data was also contained). The major conclusions of the study proved to be dramatic:

- The percentage of state general purpose expenditures devoted to public higher education has declined significantly, even though total dollar expenditures have increased throughout the 10-year period.

- State expenditures per student were lower in 1974-75 than in 1973-74 in real term dollars (due to severely depressed state revenues), and expenditures per student varied significantly between state institutions over the entire period covered by the study.

- Students are paying a substantially greater share of college costs, through tuition and fee charges (up from 16.9% in 1965-66 to 22% in 1973-74, on a statewide average for public baccalaureates).

This study includes both public (baccalaureate and community colleges) and private institutions - although analysis emphasizes public baccalaureate because of their overall importance in the state's higher education system at present. The focus is on projecting future enrollment, cost, and revenue trends to 1980 and 1985. The report seeks to provide policy-makers with an accurate "snapshot picture" of what higher education financing will look like in Michigan in 1980 and 1985 assuming certain enrollment, revenue, and high rates of inflation continue.

Major conclusions of the study are:

- There is an obvious need for greater state and federal support for higher education institutions in Michigan over the next decade.

- In the near term, the present funding policies should be modified to include support for a funding formula by level of instruction and by program as cost data permits. In the long-term (after 1985), the enrollment related funding formula should probably be modified, and consideration given primarily to funding particular programs and services offered by colleges and universities apart from total enrollments.

- Enrollment gains over the next decade will be relatively modest compared to the 1960's (except perhaps for community colleges), and are expected to actually decline by 1985 - if not before.

It is hoped that this "snapshot" will bring clearly into focus the probable impact on Michigan's individual higher education institutions if present state funding levels are continued. The study concludes with a discussion of alternative policy options for decision-makers to weigh and evaluate in light of the analysis contained in the report.

The study was completed using primarily HEGIS (Higher Education General Information Survey) data, and some enrollment (FYES - Fiscal Year Equated Students), and expenditure data provided by the Senate Fiscal Agency; the Educational Agencies Program Section, the Office of Revenue and Tax Analysis, and the Planning and Policy Analysis Division of the Department of Management and Budget; and Student Financial Assistance Services of the Department of Education. Professional and technical comments were also provided by the staff of the House Fiscal Agency, the Senate Fiscal Agency, the Council of State College Presidents, the Michigan Community College Association, and the Association of Independent Colleges and Universities. The State Board of Education would like to thank the public and private higher education institutions, and the agencies and staff noted above for their cooperation and assistance in providing the necessary data for completing this study.

JOHN W. PORTER
Superintendent of
Public Instruction

METHODOLOGICAL NOTE

This study was conducted using primarily HEGIS (Higher Education General Information Survey) data submitted to the State Department of Education by the public and non-public institutions themselves over the period 1965-1974. Some enrollment (FYES - Fiscal Year Equivalent Student), cost-of-living index, and state appropriations (actual and projected) expenditure data was also provided by the Educational Agencies Program Section, the Office of Revenue and Tax Analysis, and the Planning and Policy Analysis Division of the Department of Management and Budget; the Senate Fiscal Agency; and Student Financial Aid Services, the Department of Education. Professional and technical comments were also provided by the staff of the House Fiscal Agency, the Senate Fiscal Agency, the Council of State College Presidents, the Michigan Community College Association, and Association of Independent Colleges and Universities.

Some methodological notes on the completeness and accuracy of the data are appropriate here. Analysis of the data provided by the higher education institutions over the decade indicates that the quality has improved from year to year, and is quite hard data in the main now for baccalaureate institutions. The quality of some of the community college and non-public colleges and universities data, although generally good, is not quite as good as for public baccalaureates. There are instances for all types of institutions, however, where portions of the data for certain schools are softer than the rest or incomplete. Also, HEGIS format requirements for year to year have changed somewhat which makes longitudinal analysis more difficult.

We have tried wherever possible to use the data exactly as reported by the institutions. On occasions where prior year data had to be used because current data was not available, we have carefully footnoted this fact. Other adjustments or assumptions made are also noted wherever appropriate. The data that the Department of Management and Budget and the Senate Fiscal Agency has provided we judge to be hard in the main.

We have used the Detroit Cost of Living Index (which is the only consumer price index available at present in Michigan) prepared by the U.S. Department of Labor to adjust actual dollars to real term dollars for the decade 1965-1974 in a number of the tables. More specifically, 1967-68 expenditures are used as the base year, and each subsequent year's expenditures are adjusted to 1967 dollars. For example, Actual State General Purpose Expenditures in 1973-74 were 383.7 million dollars for baccalaureate institutions, and 66.6 million for community colleges. In order to adjust these figures to real term dollars (1967), they are divided by the Detroit Cost of Living Index for 1973-74 (134.5). The product is real term expenditures of 285.3 million and 49.5 million for baccalaureate and community colleges respectively (See Tables II & III).

It should be noted that the use of the Detroit Cost of Living Index to arrive at real term dollars probably underestimates the degree to which actual appropriations have been deflated by inflation. This is so because higher education costs appear to have outstripped the Detroit Cost of Living Index. For example, the D. Kent Halstead Index of Higher Education Costs compares to the Detroit Cost of Living Index as follows:

	1971	1972	1973	1974
Detroit Index (1967 base)	121.7	126.2	134.5	149.1
Halstead Index (1967 base)	128.7	135.8	142.8	152.8

For 1975-1985 projections, we have used three different rates for calculating the expected rise in higher education costs - 6%, 8%, and 10% per year. For projected revenues, we have used the figure of 8% as estimated by the Office of Revenue and Tax Analysis of the Department of Management and Budget. However, because many alternative projections suggest this rate may be overly optimistic, we have constructed a table (Table XIX) which indicates what the real term dollars/FYES support would be assuming different growth rates.

For the benefit of the reader who is not familiar with HEGIS financial terminology, the following key definitions are provided:

Total Educational and General Revenues: includes student tuition and fees, governmental appropriations, endowment income, private gifts, other separately budgeted research, other sponsored programs, recovery of indirect costs, sales and services of educational departments, organized activities related to educational departments, and other sources.

Total Educational and General Expenditures: includes instructional and departmental research, organized activities related to educational departments, sponsored research, other separately budgeted research, other sponsored programs, extension and public service, libraries, physical plant maintenance and operation, and other education and general.

Government Appropriations: includes federal government (federal payments received through state channels and all other federal appropriations), state government, and local government.

LIST OF TABLES

Table		Page
I.	Enrollment of Public and Private Higher Education Institutions in Michigan: 1965-1974 (FYES)	2
II.	Actual State Expenditures for Public Baccalaureate Institutions and Public Community Colleges as Compared to Actual State General Purpose Expenditures 1965 - 1975 ($ million)	4
III.	Actual State Expenditures for Public Baccalaureate Institutions and Public Community Colleges in Real Term Dollars/FYES	5
IV.	Competitive State Scholarship and Tuition Grants to Michigan Higher Education Institutions in Actual and Real Term Dollars - 1965-1974	6
V.	Enrollment Compared to Competitive Scholarship and Tuition Grant Programs for Selected Public and Non-Public Institutions	8
VI.	Projected Enrollment for Public and Private Higher Education Institutions in Michigan to 1980 and 1985 (FYES)	13
VII.	Projected Enrollments to 1985 for Public Baccalaureates and Community Colleges - By Institution (Constant Ratio Method)	16
VIII.	Comparison of Total Education and General Expenditures for Public and Non-Public Higher Education Institutions in Michigan: 1969-70 vs. 1973-74 ($/FYES)	18
IX.	Public Baccalaureate Institutions: Index of Expenditures/FYES by Activity 1973-74 vs. 1969-70	20
X.	Public Baccalaureate Institutions: Expenditures/FYES by Activity 1973-74 vs. 1969-70 in Actual Dollars ($)	21
XI.	Public Community Colleges: Index of Expenditures/FYES by Activity 1973-74 vs. 1969-70	22
XII.	Public Community College Institutions: Expenditures/FYES by Activity 1973-74 vs. 1969-70 In Actual Dollars ($)	24

Sponsored Research: includes federal, state, and local government and nongovernmental (philanthropic and other nongovernmental).

Student Aid Grants: includes federal, state, and local governments, private gifts and grants, endowment income, and other student aid grants.

Major Service Programs: includes hospital charges, federal funds for hospitals, other hospital revenues, and other service programs.

Auxiliary Enterprises: includes housing and food services, and other auxiliary enterprises.

We wish to thank the higher education institutions, the Department of Management and Budget, and the Senate and House Fiscal Agencies for their cooperation. and solicit comments anyone may care to make to help the quality of our analysis.

Table		Page
XIII.	Non-Public Institutions: Index of Total Education and General Expenditures/FTE 1969-70 vs. 1973-74	26
XIV.	Projection of State Appropriations to Public Baccalaureate Institutions and Community Colleges: 1975-1985 in Actual and Real Term Dollars	31
XV.	Public Baccalaureate Institutions: Projected Enrollment and State Financial Support/FYES - 1980 and 1985	38
XVI.	Public Baccalaureate Institutions: Projected State Appropriation by Institution - 1980 and 1985	39
XVII.	Public Community & Junior Colleges - Projected Enrollment and State Financial Support/FYES 1980 and 1985	40
XVIII.	Public Community and Junior Colleges: Projected State Appropriation by Institution - 1980 and 1985	42
XIX.	Projected 1980-1985 Real Term State Appropriations/ FYES ($) for Public Institutions	45
XX.	Public Baccalaureate Enrollments: 1965-1974 (FYES)	52
XXI.	Public Community College Enrollments: 1965-1974 (FYES)	54
XXII.	Non-public Colleges and Universities - Enrollment (Fall): 1966-1973 (FTE)	56
XXIII.	Public Baccalaureate Institutions: Instructional and Program Expenditures, Physical Plant Maintenance and Operation, Other Educational and General - 1965-1974 ($)	58
XXIV.	Public Baccalaureate Institutions: Total Educational and General Expenditures - 1965-1974 ($)	61
XXV.	Public Community College Institutions - Instructional and Program Expenditures: Physical Plant and Operation: Other Educational and General Expense - 1969-70, 1972-73 and 1973-74	62
XXVI.	Public Community College Institutions: Total Education and General Expenditures - 1965-1974 ($)	64
XXVII.	Non-Public Colleges and Universities: Total Education and General Expenditures - 1965-1974 ($)	66
XXVIII.	Public Community Colleges: Total Education and General Revenues 1965-1974 ($)	68

Table		Page
XXIX.	Non-Public Colleges and Universities: Total Education and General Revenues 1965-1974 ($)	70
XXX.	Public Baccalaureate Institutions: Competitive State Scholarship Awards - 1965-1974	72
XXXI.	Public Community Colleges: Competitive State Scholarship Awards - 1965-1974	74
XXXII.	Independent Colleges and Universities: Competitive State Scholarships and Tuition Grants	76
XXXIII.	Baccalaureate Institutions: Percent of Total Enrollment Compared with Percent of State Competitive Scholarship Grant Dollars Received	78
XXXIV.	Community Colleges: Percent of Total Enrollment Compared with Percent of State Competitive Scholarship Grant Dollars Received	79
XXXV.	Independent Colleges: Percent of Total Enrollment Compared with Percent of State Competitive Scholarship and Tuition Grant Dollars Received	80

LIST OF FIGURES

Figure		Page
I.	Enrollment of Public and Private Higher Education Institutions in Michigan: 1965-1974 Actual and Projections to 1985	14
II.	Baccalaureate Institutions: Projections of State Appropriations/FYES 1975-1985 in Real Term Dollars at the Inflation Rates of 6%, 8%, 10%/Year	33
III.	Community College Institutions: Projections of State Appropriations/FYES 1975-1985 in Real Term Dollars at the Inflation Rates of 6%, 8%, 10%/Year	34
IV.	State Appropriations to Public Baccalaureate and Community College Institutions/FYES: 1965-1975 Actual and 1975-1985 Projected in Real Term Dollars	36
V.	Projections of State Appropriations/FYES: 1975-1985 in Real Term Dollars at the Inflation Rates of 6%, 8%, 10%/Year (Constant Ratio Projection)	37

INTRODUCTION

During most of the 1960's, Michigan higher education at all levels enjoyed a steady and certain growth, both in terms of enrollment and financial support.[1] But, this pattern appears to have changed in the 1970's and for the foreseeable future. While public community college enrollments continue to rise rapidly, enrollment growth among public baccalaureate and private institutions has slowed - and in some cases - actually declined (See Table I). Projections beyond 1985 indicate that there may actually be a severe dip in present public baccalaureate and private institutional enrollments following the present decline in primary and secondary schools -- raising the possibility of the closure of some higher education institutions.

At the same time, the sources and level of financial support for higher education has begun to decline in real terms both at the national and state level. For example, a recent study by Higher Education Management Services of the Department of Education shows that at the state level, competitive demands for services in other departments, the present recession in the State's economy, and double digit rates of inflation has resulted in the decline of actual state expenditures for public baccalaureate institutions operating needs as compared to actual state general purpose expenditures from a high of 20.0% in 1965-66 to a low of 14.3% in 1973-74. Furthermore, actual state expenditures/FYES for baccalaureate

---

1) See for example, Statistical Report (Lansing, Mi: Senate Fiscal Agency, October, 1974); Advising on Educational Needs in Michigan 1973-74 (Lansing, Mi: Michigan Department of Education, 1974).

TABLE I

ENROLLMENT OF PUBLIC AND PRIVATE HIGHER EDUCATION INSTITUTIONS IN MICHIGAN: 1965-1974 (FYES)*

	1965-66	1966-67	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74
Public Baccalaureate	144,770	158,594	170,806	180,929	191,160	199,392	201,022	197,821	199,556
Percent of Total	(65.9)	(64.4)	(64.7)	(63.5)	(62.9)	(62.6)	(62.1)	(61.4)	(60.6)
Public Comm. Colleges	36,689	45,124	51,578	61,513	70,439	77,338	79,464	79,934	81,931
Percent of Total	(16.7)	(18.3)	(19.5)	(21.6)	(23.2)	(24.2)	(24.6)	(24.8)	(24.9)
TOTAL PUBLIC INSTITUTIONS	181,459	203,718	222,384	242,442	261,599	276,730	280,486	277,755	281,487
Percent of Total	(82.6)	(82.7)	(84.2)	(85.1)	(86.1)	(86.8)	(86.7)	(86.2)	(85.5)
Private Institutions	38,157	42,720	41,640	42,414	42,079	42,206	43,185	44,429	47,733
Percent of Total	(17.4)	(17.3)	(15.8)	(14.9)	(13.9)	(13.2)	(13.3)	(13.8)	(14.5)
TOTAL ALL INSTITUTIONS	219,616	246,438	264,024	284,856	303,678	318,936	323,671	322,184	329,220
Percent of Total	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)

* Private FTE's are assumed equal to FYES

institutions in real terms (after discounting for inflation) are lower in 1974-75 than in 1973-74, and will decline still further in 1975-76 based on the final appropriations bill passed by the Legislature and signed by the Governor.[2]

Although the community colleges' share of state expenditures has increased over the last decade from 1.4% to 2.6% to meet rising enrollments, real term expenditures/FYES has also declined in 1974-75, and will again in 1975-76 (See Tables II and III for details).

State aid to higher education through other programs (e.g., competitive state scholarships and tuition grants to students attending private colleges) have without a doubt had a very beneficial impact on public and private school enrollments, and helped broaden the access of higher education to many more Michigan citizens then would have been the case without such state support. But, these programs over the last five years have not kept pace with the rise in average tuition and fees charged by the colleges and universities.[3] In fact, the amount of real term dollars (i.e., discounting for inflation) allocated through the competitive state scholarship program to public higher education institutions declined in 1973-74 vs. 1972-73, and is also expected to decline further next year (See Table IV). In addition, it should be noted that some of the state's

---

2) Weston H. Agor, Financing of Public Baccalaureate Institutions in Michigan: A Staff Report Analyzing Trends from 1965-74 (Lansing, Mi: Michigan State Department of Education, 1975).

3) "College Fees Double", The State Journal, July 20, 1975, p. 12. Tuition and fees as a source of institutional revenue has increased from a low of 16.9% in 1965-66 to a high of 22% in 1973-74 statewide.

TABLE II

ACTUAL STATE EXPENDITURES FOR PUBLIC BACCALAUREATE INSTITUTIONS AND PUBLIC COMMUNITY COLLEGES AS COMPARED TO ACTUAL STATE GENERAL PURPOSE EXPENDITURES 1965 - 1975 ($ million)*

	1965-1966	1966-1967	1967-1968	1968-1969	1969-1970	1970-1971	1971-1972	1972-1973	1973-1974	1974-1975
State Expenditures										
Bacca. Institutions	164.6	196.4	204.4	226.4	252.7	280.2	307.4	345.5	383.7	422.3
Community Colleges	11.4	16.9	18.7	26.4	41.0	45.3	49.9	58.6	66.6	73.1**
Total	176.0	213.3	223.1	252.8	293.7	325.5	357.3	404.1	450.3	495.4
Percent of Total Actual State General Purpose Expenditures										
Bacca. Institutions	20.0	18.4	17.7	16.9	16.2	15.7	14.9	14.6	14.3	15.4
Community Colleges	1.4	1.6	1.3	1.5	2.3	2.2	2.0	2.5	2.5	2.6
Total	21.4	20.0	19.0	18.4	18.5	17.9	16.9	17.1	16.8	18.0

* Actual dollar figures are from the Executive Office

** 1974-75 figures are appropriated dollars, and do not include supplementals which may be approved subsequently.

TABLE III

ACTUAL STATE EXPENDITURES FOR PUBLIC BACCALAUREATE INSTITUTIONS AND PUBLIC COMMUNITY COLLEGES IN REAL TERM DOLLARS/FYES*

	1965-1966	1966-1967	1967-1968	1968-1969	1969-1970	1970-1971	1971-1972	1972 1973	1973-1974	1974-1975
State Expenditures ($ Million)										
Bacca. Institutions	177.8	203.1	204.4	217.3	228.3	238.7	252.6	273.8	285.3	283.2
Community Colleges	12.3	17.5	18.0	25.3	37.1	38.6	41.0	46.4	49.5	49.0
Total	190.1	220.6	222.4	242.6	265.4	277.3	293.6	320.2	334.8	332.2
Total Exp./FYES ($)	1,039	1,081	1,003	1,000	1,015	1,002	1,047	1,153	1,190	1,153
Bacca. Institutions	1,228	1,281	1,197	1,199	1,194	1,197	1,257	1,384	1,430	1,392
Community Colleges	335	388	349	411	527	499	516	580	604	578
Index/FYES (1967)	103.6	107.8	100.0	99.7	101.2	99.9	104.4	115.0	118.6	115.0
Bacca. Institutions	102.6	107.0	100.0	100.2	99.7	100.0	105.0	115.6	119.5	116.3
Community Colleges	96.0	111.2	100.0	117.8	151.0	143.0	147.9	166.2	173.1	165.6

* Actual dollar figures are from the Executive Office.
Real Term Dollars/FYES are derived by applying the Consumer Price Index produced by the U.S. Department of Labor, Bureau of Labor Statistics (1967 = 100).

TABLE IV

COMPETITIVE STATE SCHOLARSHIP AND TUITION GRANTS TO MICHIGAN HIGHER EDUCATION INSTITUTIONS IN ACTUAL AND REAL TERM DOLLARS - 1965-1974

ACTUAL TOTAL DOLLARS - 1965-1974 ($ million)*

Institutions	1965-66	1966-67	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74
Baccalaureates	0.9	1.1	1.3	4.2	4.9	4.8	5.6	5.3	5.1
Community Colleges	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.5	0.5
Independent	0.6	1.6	0.6	5.0	6.7	6.8	9.2	7.5	10.3

ACTUAL DOLLARS/FYES - 1965-1974

Institutions	1965-66	1966-67	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74
Baccalaureates	5.98	6.98	7.37	23.01	25.68	24.03	28.06	26.85	25.66
Community Colleges	1.65	1.94	2.56	3.13	2.61	3.63	4.40	6.63	5.76
Independent	14.92	36.64	15.50	118.60	159.57	159.99	213.48	168.94	216.25

REAL TERM DOLLARS/FYES - 1965-1974**

Institutions	1965-66	1966-67	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74
Baccalaureates	6.46	7.22	7.37	22.06	23.22	20.47	23.06	21.28	19.08
Community Colleges	1.78	2.01	2.56	3.00	2.36	3.09	3.62	5.25	4.28
Independent	16.11	37.89	15.50	113.71	144.28	136.28	175.42	133.87	160.78

* Figures are rounded to nearest tenth of a million

** Detroit Cost of Living Index is used to calculate real term dollars (1967 = 100)

higher education institutions receive more benefit from the state competitive scholarship and tuition grant programs than others because students who receive this support tend to attend certain schools with greater frequency in both the public and private sector (See Table V).

If the present trends in enrollment, inflation, and financial support continue, the future of each and every higher education institution in Michigan in the years ahead will depend on the strong and cooperative leadership, careful planning, wise adjustments, and intelligent policy-making of the higher education institutions themselves, the Executive Office, the Legislature, and the State Board of Education.

But, in order to have intelligent decision-making, policy-makers must have at their fingertips adequate information as to the past, present, and future financial state of higher education in Michigan. Higher Education Management Services seeks to contribute to the decision-making process by providing comparative statewide data and objective analysis on higher education in the state for both public and private institutions.

This study is the second in a series of major long-term analyses completed accordingly. The first study focused primarily on the past financing of public baccalaureate institutions in the state for the entire decade 1965-1974 (some analysis of facilities data was also contained). The major conclusions of the study proved to be dramatic.[4]

---

4) Weston H. Agor, op.cit. Some of the major conclusions were that: the percentage of actual state general purpose expenditures devoted to public baccalaureate institutions has declined significantly over the last decade; state expenditures in real terms/FYES are lower in 1974-75 than in 1973-74; the level of appropriations/FYES varied from institution to institution; student tuition and fees as a source of institutional revenue has increased from a low of 16.9% in 1965-66 to a high of 22% in 1973-74 statewide; and the Executive Office funding formula appears to be regressive.

TABLE V

ENROLLMENT COMPARED TO COMPETITIVE SCHOLARSHIP AND TUITION GRANT PROGRAMS FOR SELECTED PUBLIC AND NON-PUBLIC INSTITUTIONS

1973-74

Institution	Enrollment (%)	Competitive Scholarship and Tuition Grants* (%)
Public Baccalaureates		
Central Michigan Univ.	7.3	8.3
Grand Valley St. Colleges	2.7	3.2
Michigan State Univ.	20.3	29.0
Michigan Technological Univ.	2.7	5.8
U of M - Ann Arbor	18.4	23.5
Community Colleges		
Glen Oaks Comm. Coll.	0.7	4.4
Gogebic Community Coll.	0.8	15.5
Muskegon Comm. Coll.	2.9	8.2
St. Clair County C.C.	2.3	4.7
Non-Public		
Alma College	2.7	4.3
Aquinas College	2.7	4.5
Detroit Institute of Tech.	1.9	3.9
Mercy College	3.6	5.7
Olivet College	1.7	4.2
Shaw College	2.2	3.8
Univ. of Detroit	14.5	18.0

* Tuition Grants are available only to students at non-public institutions. See pages 72-81 for tables displaying all public and private institutions.

This study includes both public (baccalaureate and community colleges) and private institutions (although analysis will center primarily on public institutions - particularly baccalaureates), and focuses on projecting the future enrollment, cost, and revenue trends to 1980 and 1985. The report seeks to provide policy-makers with an accurate "snapshot picture" of what higher education financing will look like in Michigan in 1980 and 1985 assuming certain enrollment, revenue, and differential rates of inflation continue. It is hoped that this "snapshot" will bring clearly into focus the probable impact on Michigan's individual higher education institutions if present state funding levels are continued. The study concludes with a discussion of alternative policy options for decision-makers to weigh and evaluate in light of the analysis contained in the report.

MAJOR CONCLUSIONS OF THE STUDY

1. Enrollment projections to 1980 and 1985 indicates that growth will average between 2.1% (Constant Ratio Method) and 2.4% (Straight Line Method)/year over the next decade. After 1985, higher education enrollments are expected to drop unless a radical change in the population attending higher education institutions beyond the next decade occurs.

2. Among public institutions, baccalaureates will probably show a slower enrollment growth rate over the next decade - ranging from a minimum expected annual increase of 1.1% (Straight Line Method) to a maximum annual increase of 2.1% (Constant Ratio Method). Community colleges are expected to experience a somewhat higher growth rate - ranging

from a minimum of 2.2% (Constant Ratio Method) to a high of 4.5% (Straight Line Method) annually. Private institutions overall are expected to show a gradual increase in enrollments - from a minimum of 2.1% (Constant Ratio Method) to a maximum of 3.7% (Straight Line Method) per year. Within each category of institution, individual colleges and universities will exceed or fall short of the average range projected - with corresponding implications for the probable financial difficulties of those schools which fail to meet average projections.

3. While Total Education and General Expenditures for public and private higher education institutions in Michigan from 1969-70 to 1973-74 per FYES/FTE appear to have risen on the average at rates higher than the Detroit Cost of Living Index for the same period - thereby suggesting that base levels of program operation were minimally maintained over this time period[5] - it should be noted that certain individual institutions' expenditures appear not to have kept pace over this time period. Also, the rise in and absolute level of expenditures/FYES by category within Total Education and General (Instructional and Program; Physical Plant Maintenance and Operation; Other Education and General) shows wide variation from institution to institution compared to the statewide average. In part, these variations reflect distinct institutional roles, program mix, and regional costs. But in some cases, these variations appear to reflect

---

5) It should be noted that the national educational cost index developed by D. Kent Halstead of the Office of Education of the Department of Health, Education, and Welfare indicates that costs for higher education have actually risen faster than the Detroit Cost of Living Index. For example, the Halstead Index for Higher Education in 1974 (indexed to 1967 prices) was 152.8 vs. 149.1 for the Detroit Cost of Living Index.

the impact of the state's funding formula on individual institutions' expenditures, and their own respective priorities for spending the dollars available to them.

Taken in conjunction with earlier findings that state support for public higher education institutions/FYES has declined in 1974-75 in real terms (i.e., after discounting for inflation), and will decline still further based on the 1975-76 appropriation as adopted, it is probable that several state higher education institutions have now been forced to curtail planned program improvements/cutback the quality of existing programs, or delay other categories of expenditures such as physical plant maintenance and purchase of some instructional equipment.

4. Projections of expected higher education enrollments (using both the Constant Ratio and Straight Line Methods), state general purpose expenditures for higher education operating expenses, and the expected rise in educational costs indicate that support in real term dollars/FYES (i.e., after discounting for inflation) will continue to decline through 1980 and 1985. Furthermore, the level of state expenditures/FYES by institution will continue to deviate substantially from the statewide average if present appropriation policies continue.

5. The above projections suggest the consideration of several alternative public policies by the Executive Office, the Legislature and the State Board of Education if real term levels of support/FYES are to be re-established at 1973-74 levels, and maintained in the decade ahead. At the state level, among these would be devotion of

a greater share of state general purpose expenditures to higher education; reassessment in the long-term (i.e., after 1985) of the present enrollment related funding policies; consolidation of some existing public institutions and the closure of others; and greater appropriations to competitive scholarship and tuition grant programs. At the federal level, consideration should be given to reorienting priorities to again provide some means of support for the financing of higher education as per a decade ago (e.g., endowments to students and bloc grants to institutions).

DETAILED DISCUSSION OF EACH CONCLUSION

Enrollment Projections to 1980 and 1985

The Constant Ratio Projection to 1985 is based on the percent of male and female enrollments to the total population aged 18 to 34. The projection reflects changes in enrollment that are attributed to population changes only.[6] The projection of headcount enrollment is translated into FYES enrollment for public institutions and into FTE enrollment for private schools by determining the actual ratio of FYES/FTE enrollments to headcount in the fall of 1974 (.869 for public baccalaureates, .543 for community colleges; and .864 for independents) and multiplying this ratio times projected headcount figures for 1980 to arrive at projected FYES/FTE figures. 1985 projections are calculated in the same way after headcount figures for 1980 are projected to 1985 at the same rate of change projected from 1975 to 1980.

---

6) For a detailed explanation of this approach see James C. Homan, Postsecondary Educational Needs in Michigan: 1975 (Lansing, Mi. Michigan Department of Education, 1975), pp. 47-54.

The Straight Line Projection Method simply arithmetically projects future enrollments to 1980 and 1985 based on the same rate of change experienced by each category of institution over the period 1969-70 to 1973-74. (See Figure 1 for a graphic presentation of Table VI) The years 1969-70 to 1973-74 are used as the base period on the grounds that enrollments during 1974-75 and 1975-76 appear to be atypically high due to the recession. Historical analysis of past enrollments shows that the last recession was followed by an enrollment dip (See Figure I).

Table VII projects individual institutional enrollments for public community colleges and universities to 1980 and 1985 using The Constant Ratio Method.[7]

The Rise of Public and Private Higher Education Expenditures

While Total Education and General Expenditures for public and private higher education institutions in Michigan from 1969-70 to 1973-74 per FYES/FTE appear to have risen on the average at rates higher than the Detroit Cost of Living Index for the same period - thereby suggesting that levels of program quality were minimally maintained over this time period - it should be noted that certain individual institutional expenditures appear not to have kept pace over this time period. Also, the rise in absolute level of expenditures/FYES by category within Total Education and General (Instructional and Program; Physical Plant Maintenance and Operation; Other Education and General) shows wide variation from institution to institution compared to the statewide average. It is not the intent

(Text continued on Page 18)

7) As is noted, statistical extrapolation of enrollment trends is fraught with problems. Each of the projection methods used here has strengths and weaknesses. The Constant Ratio Method takes into account projected changes in population, while the Straight Line Method takes into account recent actual enrollment trends to project future trends. Both approaches are used throughout this study, but The Constant Ratio Method is used here for illustrative purposes only to project individual public institutional enrollments.

TABLE VI

PROJECTED ENROLLMENT FOR PUBLIC AND PRIVATE HIGHER EDUCATION INSTITUTIONS IN MICHIGAN TO 1980 AND 1985 (FYES)*

	Constant Ratio Method			Straight Line Method		
	1975-76	1980-81	1985-86	1975-76	1980-81	1985-86
Public Baccalaureates Percent of Total	204,919 (58.1)	225,543 (58.1)	248,323 (58.1)	201,751 (60.0)	212,847 (57.0)	224,554 (54.0)
Public Community Colleges Percent of Total	97,106 (27.6)	106,876 (27.6)	117,670 (27.6)	85,290 (25.4)	102,774 (27.5)	123,843 (29.8)
TOTAL PUBLIC INSTITUTIONS Percent of Total	302,025 (85.7)	332,419 (85.7)	365,993 (85.7)	287,041 (85.4)	315,621 (84.5)	348,397 (83.8)
Independent Institutions Percent of Total	50,261 (14.3)	55,323 (14.3)	60,910 (14.3)	49,356 (14.6)	57,747 (15.5)	67,564 (16.2)
TOTAL ALL INSTITUTIONS	352,286	387,742	426,903	336,397	373,368	415,961

33

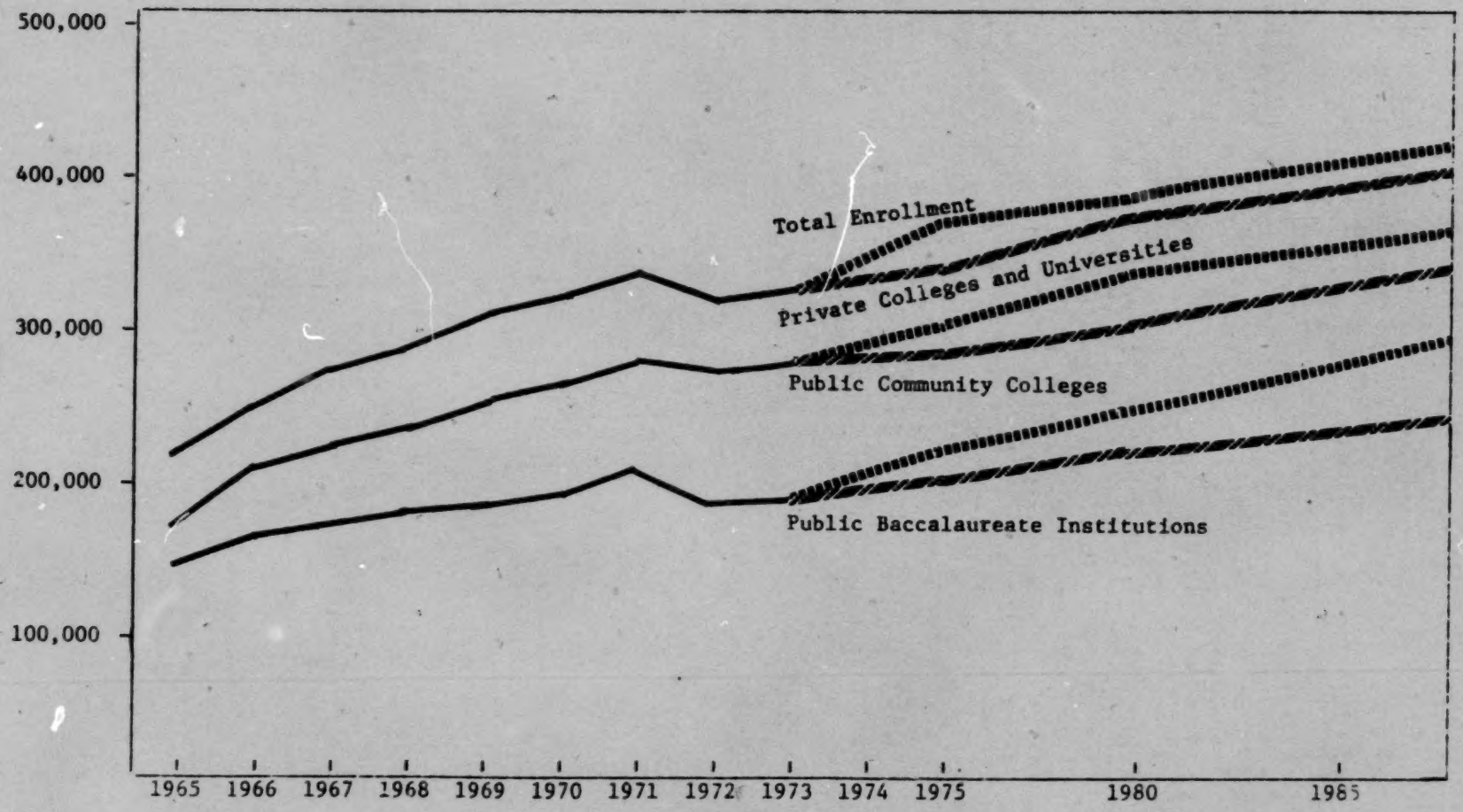
* Independent FTE's assumed to equal FYES

NB Both enrollment projections fall below the Carnegie enrollment projections which have proved to be overly optimistic, but close to the State Plan for Higher Education in Michigan projections which have proved to be near to actual enrollments realized by the institutions.

32

These projected enrollments are consistent with the range of enrollments projected by David Goldberg and Albert Anderson, Projections of Population and College Enrollments in Michigan, 1970-2000 (Lansing, Mi: 1974) prepared by the Governor's Commission on Higher Education.

FIGURE I
ENROLLMENT OF PUBLIC AND PRIVATE HIGHER EDUCATION INSTITUTIONS
IN MICHIGAN: 1965-1974 ACTUAL AND PROJECTIONS TO 1985*



*Public institutions are in FYES. Private in FTE's - assumed to equal FYES.
Projections: = Constant Ratios = Straight Projections

TABLE VII
PROJECTED ENROLLMENTS TO 1985 FOR PUBLIC BACCALAUREATES AND COMMUNITY COLLEGES - BY INSTITUTION
(CONSTANT RATIO METHOD)

	1975	1980	1985	%
Baccalaureates				
Central Mich. University	14,686	16,239	17,879	7.2
Eastern Mich. University	15,942	17,592	19,369	7.8
Ferris State College	10,243	11,277	12,416	5.0
Grand Valley St. Colleges	6,100	6,766	7,449	3.0
Lake Superior St. College	1,835	2,029	2,235	0.9
Michigan State Univ.	41,588	45,563	50,163	20.2
Mich. Technological Univ.	5,640	6,315	6,953	2.8
Northern Mich. University	7,550	8,345	9,188	3.7
Oakland University	8,820	9,698	10,678	4.3
Saginaw Valley St.College	2,118	2,255	2,483	1.0
U of M - Ann Arbor	36,332	39,921	43,953	17.7
U of M - Dearborn	3,800	4,285	4,718	1.9
U of M - Flint	2,766	2,932	3,228	1.3
Wayne State University	27,371	30,223	33,275	13.4
Western Michigan University	20,128	22,103	24,336	9.8
TOTAL	204,919	225,543	248,323	100.0
Community Colleges				
Alpena Comm. College	1,068	1,176	1,294	1.1
Bay de Noc Comm. College	680	748	824	0.7
C.S. Mott Comm. College	6,218	6,833	7,513	6.4
Delta College	5,247	5,764	6,337	5.4
Glen Oaks Comm. College	680	748	824	0.7
Gogebic Community College	777	855	941	0.8
Grand Rapids Junior College	4,661	5,130	5,748	4.9
Henry Ford Community College	7,189	7,902	8,690	7.4
Highland Park Comm. College	2,428	2,672	2,942	2.5
Jackson Community College	3,690	4,061	4,471	3.8
Kalamazoo Valley Comm. Coll.	2,622	2,886	3,177	2.7
Kellogg Community College	2,428	2,672	2,942	2.5
Kirtland Community College	777	855	941	0.8
Lake Michigan College	1,651	1,817	2,000	1.7
Lansing Community College	7,380	8,223	8,943	7.6
Macomb County Comm. Coll.	11,850	13,032	14,338	12.1
Mid Michigan Comm. College	680	748	824	0.7
Monroe County Comm. Coll.	1,165	1,283	1,412	1.2
Montcalm Community College	680	748	824	0.7
Muskegon Community College	2,913	3,206	3,530	3.0

TABLE VII - PROJECTED ENROLLMENTS TO 1985 FOR PUBLIC BACCALAUREATES AND COMMUNITY COLLEGES - BY INSTITUTION (CONSTANT RATIO METHOD) (Continued)

	1975	1980	1985	%
Community Colleges (Cont'd.)				
North Central Michigan Coll.	680	748	824	0.7
Northwestern Mich. College	1,942	2 138	2,353	2.0
Oakland Community College	9,228	10,146	11,161	9.5
St. Clair County Comm. Coll.	2,428	2,672	2,942	2.5
Schoolcraft College	4,467	4,916	5,413	4.6
Southwestern Mich. College	1,068	1,176	1,294	1.1
Washtenaw Community College	3,010	3,313	3,648	3.1
Wayne County Comm. College	8,901	9,765	10,814	9.2
West Shore Comm. College	598	641	706	0.6
TOTAL	97,106	106,876	117,670	
TOTAL PUBLIC INSTITUTIONS	302,025	332,419	365,993	

of the author to indicate that this variation is necessarily inappropriate, however. Careful cost analysis would be required first before this conclusion could be reached.

Taken in conjunction with our earlier findings that state support for public higher education institutions/FYES has declined in 1974-75 in real terms (i.e., after discounting for inflation), and has declined still further based on the 1975-76 budget signed by the Governor, it is probable that several state higher education institutions have now been forced to curtail planned program improvements/cutback the operating level of existing programs, or delay other categories of expenditures such as physical plant maintenance and operation.

Table VIII compares the increase in total Education and General Expenditures to the Detroit Cost of Living Index for the same period 1969-70 to 1973-74 for all categories of higher education institutions. Expenditures appear to have risen at rates exceeding the Detroit Consumer Price Index.

TABLE VIII
COMPARISON OF TOTAL EDUCATION AND GENERAL EXPENDITURES FOR PUBLIC AND NON-PUBLIC HIGHER EDUCATION INSTITUTIONS IN MICHIGAN: 1969-70 vs. 1973-74
($/FYES) *

Institutions	1969-1970	1973-1974	Index (%)	Increase/Year (%)
Public Baccalaureate	2,649	3,432	129.6	7.4
Public Comm. Colleges	1,336	1,806	135.2	8.8
Non-Public Institutions	1,658	2,221	134.0	8.5
Detroit Cost of Living Increase Over Same Period			127.8	6.95

* Non-Public FTE's are assumed to equal FYES

These figures may be interpreted in different ways. On the one hand, it might be concluded that this rise in Total Education and General Expenditures/FYES reflects the fact that educational costs have actually exceeded the rise in Michigan's consumer cost of living. There are several problems with this interpretation, however. For public institutions, it is not possible to determine from HEGIS data to what degree this increase in expenditures represents an increase in existing program costs - or instead a combination of existing program costs and program improvements. Also, the increase in expenditures may simply reflect state legislative funding policy by institutions which is not necessarily directly connected with real educational cost increases/decreases or educational needs. This seems to be indicated, for example, by an examination of Table IX which shows that Lake Superior, Oakland, the University of Michigan - Ann Arbor, Dearborn and Flint's expenditures all fell below the annual statewide increase. It is unlikely that each institution's real cost increase over this time period were less than the increase in the consumer price index. Rather, the expenditure figures appear to reflect the reduced rate of expenditures increase in recent years from initially high start-up cost levels for the developing institutions (Lake Superior, U of M - Dearborn and Flint, and the recent legislative funding policy toward U of M - Ann Arbor and Oakland University.[8]

On the other hand, it might be argued that on a broad statewide basis (vs. institution by institution), it is appropriate to use a comparison between the rise in Total Educational and General Expenditures and the Detroit Consumer Price Index as a general indicator as to whether existing educational programs/activities are being maintained or improved.

(Text continues on p. 28)

8) For a detailed discussion of the latter point, see Weston H. Agor, op,cit., pp. 6-14.

TABLE IX

PUBLIC BACCALAUREATE INSTITUTIONS: INDEX OF EXPENDITURES/FYES BY ACTIVITY 1973-74 vs 1969-70

Institution	Instructional and Program (1) (%)	Physical Plant Maintenance & Operation (%)	Other Education & General (%)	Total Education & General (%)	Total Ed. & Gen. Percent Increase Per Year (%)
Central Michigan Univ.	144.7	98.1	184.1	145.6	11.4
Eastern Michigan Univ.	154.2	103.4	150.6	133.1	8.3
Ferris State College	143.0	153.2	130.4	141.3	10.3
Grand Valley St. Colleges	143.8	90.8	119.0	128.8	7.2
Lake Superior St. College	124.1	134.5	137.7	121.9	5.5
Michigan State University	121.2	139.6	145.1	137.0	9.3
Mich. Technological Univ.	171.1	95.6	82.1	134.8	8.7
Northern Michigan Univ.	144.1	92.3	129.9	133.7	8.4
Oakland University	113.8	178.5	97.2	115.3	3.8
Saginaw Valley St. College	102.9	120.7	164.7	130.2	7.6
U of M - Ann Arbor	126.5	148.2	97.1	115.9	4.8
U of M - Dearborn	61.5	74.7	191.0	74.1	-6.5
U of M - Flint	123.7	126.3	135.6	113.8	3.5
Wayne State University	142.6	144.5	119.9	144.5	11.1
Western Michigan Univ.	152.0	136.4	129.2	146.4	11.6
Statewide Average	132.1	132.3	121.7	129.6	7.4
Cost of Living Increase Over the Same Time Period (2)				127.8	6.95

(1) Includes the categories of instruction and departmental research; organized activities related to educational departments; extension and public service; and libraries.

(2) Based on Consumer Price Index produced by the U.S. Department of Labor, Bureau of Labor Statistics (1967 = 100)

TABLE X

PUBLIC BACCALAUREATE INSTITUTIONS: EXPENDITURES/FYES BY ACTIVITY 1973-74 vs 1969-70 IN ACTUAL DOLLARS ($)

Institution	Instructional & Program (1)		Physical Plant Maintenance & Operation		Other Education and General		Total Education and General	
	1969-70	1973-74	1969-70	1973-74	1969-70	1973-74	1969-70	1973-74
Central Michigan Univ.	980	1,418	270	265	176	324	1,427	2,070
Eastern Michigan Univ.	873	1,346	237	245	322	485	1,565	2,083
Ferris State College	906	1,296	141	216	339	442	1,401	1,980
Grand Valley State Coll.	1,065	1,531	358	325	268	319	1,699	2,188
Lake Superior St. Coll.	988	1,226	238	320	522	719	2,005	2,444
Michigan State Univ.	1,780	2,158	356	497	233	338	2,888	3,957
Mich. Technological Univ.	1,204	2,060	386	369	531	436	2,432	3,279
Northern Mich. University	1,078	1,553	248	229	254	330	1,580	2,113
Oakland University	1,160	1,320	214	382	463	450	2,050	2,364
Saginaw Valley St. Coll.	1,081	1,112	208	251	632	1,038	1,932	2,516
U of M - Ann Arbor	1,982	2,508	330	489	698	678	4,825	5,593
U of M - Dearborn	2,545	1,564	525	392	346	661	3,592	2,661
U of M - Flint	1,311	1,622	205	259	382	518	2,123	2,416
Wayne State University	1,566	2,233	344	497	408	489	2,727	3,940
Western Mich. Univ.	1,007	1,531	214	292	178	230	1,497	2,191
Statewide Average	1,438	1,900	297	393	368	448	2,649	3,432

(1) Includes the categories of instruction and departmental research; organized activities related to educational departments; extension and public service; and libraries.

TABLE XI

PUBLIC COMMUNITY COLLEGES INDEX OF EXPENDITURES/FYES BY ACTIVITY 1973-74 vs. 1969-70

Institution	Instructional and Program (1)	Physical Plant Maintenance and Operation	Other Educ. & General	Total Educ. & General	Total Ed. & General Percent Increase Per Year (%)
Alpena	166.7	126.7	214.5	107.7	1.9
Bay de Noc	245.3	308.2	231.3	187.4	21.9
C.S. Mott	149.1	130.2	176.1	129.7	7.4
Delta	154.9	174.8	332.4	145.2	11.3
Glen Oaks	137.3	216.3	239.3	NA	NA
Gogebic	154.4	113.5	278.3	NA	NA
Grand Rapids	164.1	200.9	306.5	151.9	13.0
Henry Ford	203.6	81.3	102.2	123.2	5.8
Highland Park	99.0	51.5	252.7	131.3	7.8
Jackson	173.2	145.0	177.7	161.0	15.3
Kalamazoo	318.5	391.7	168.6	142.2	10.6
Kellogg	193.6	84.8	176.3	151.0	12.8
Kirtland	1,170.0	831.3	42.6	NA	NA
Lake Michigan	149.1	248.8	137.9	145.9	11.5
Lansing	201.1	155.4	228.5	166.5	16.6
Macomb County	180.9	193.6	140.6	129.0	7.3
Mid Michigan	150.9	153.3	242.0	128.6	7.2
Monroe County	179.2	NA	268.3	138.9	9.7
Montcalm	179.1	146.7	211.9	122.6	5.7
Muskegon	186.3	191.8	250.0	NA	NA
North Central Mich.	197.1	197.0	68.6	NA	NA
Northwestern Michigan	176.6	214.3	261.4	150.8	12.7
Oakland	196.9	145.9	26.6	114.9	3.7
St. Clair County	198.1	189.5	101.9	142.2	10.6
Schoolcraft	166.6	147.3	166.5	130.7	7.7

TABLE XI, PUBLIC COMMUNITY COLLEGES INDEX OF EXPENDITURES/FYES BY ACTIVITY 1973-74 vs. 1969-70 (CONTINUED)

Institution	Instructional and Program (1)	Physical Plant Maintenance and Operation	Other Educ. & General	Total Educ. & General	Total Ed. & General Percent Increase Per Year (%)
Southwestern Mich.	128.2	81.2	156.1	145.1	11.3
Washtenaw	212.6	179.9	164.5	130.9	7.7
Wayne County	NA	NA	2,844.4	155.8	14.0
West Shore	38.6	540.4	571.6	78.4	-5.4
Statewide Average	171.7	150.0	115.2	135.2	8.8
Cost of Living Increase Over the Same Time Period (2)				127.8	6.95

(1) Includes the categories of instruction and departmental research; organized activities related to educational departments; extension and public service; and libraries.

(2) Based on Consumer Price Index produced by the U.S. Department of Labor, Bureau of Labor Statistics

TABLE XII
PUBLIC COMMUNITY COLLEGE INSTITUTIONS:
EXPENDITURES/ FYES BY ACTIVITY 1973-74 VS 1969-70
IN ACTUAL DOLLARS ($)

INSTITUTION	Instructional (1) and Program		Physical Plant Maintenance and Operation		Other Education and General		Total Education and General	
	1969-70	1973-74	1969-70	1973-74	1969-70	1973-74	1969-70	1973-74
Alpena Community Coll.	805	1,342	165	209	227	487	1,892	2,038
Bay de Noc Community Coll.	647	1,587	85	262	208	481	1,253	2,349
C.S. Mott Community Coll.	837	1,248	162	211	188	331	1,479	1,918
Delta College	730	1,131	115	201	188	625	1,453	2,110
Glen Oaks Community Coll.	756	1,038	123	266	443	1,060	1,625	NA
Gogebic Community Coll.	844	1,303	155	176	161	448	NA	2,179
Grand Rapids Jr. Coll.	647	1,062	113	227	77	236	1,003	1,524
Henry Ford Community	524	1,067	144	117	224	229	1,147	1,413
Highland Park Community	1,019	1,009	136	70	201	508	1,209	1,587
Jackson Community Coll.	765	1,335	140	203	233	414	1,276	2,054
Kalamazoo Valley CC	399	1,271	24	94	283	477	1,319	1,876
Kellogg Community Coll.	593	1,148	244	207	160	282	1,215	1,835
Kirtland Community Coll.	90	1,053	32	266	1,303	555	NA	1,874
Lake Michigan Coll.	550	820	86	214	514	709	1,259	1,837
Lansing Community Coll.	563	1,132	101	157	256	585	1,133	1,886
Macomb County Community	570	1,031	110	213	249	350	1,235	1,593
Mid Michigan Community	993	1,498	NA	213	162	392	1,701	2,188
Monroe County Community	625	1,120	255	391	284	762	1,636	2,273
Montcalm Community Coll.	738	1,322	137	201	194	411	1,577	1,934
Muskegon Community Coll.	649	1,209	110	211	236	590	1,312	NA

TABLE XII. PUBLIC COMMUNITY COLLEGE INSTITUTIONS: EXPENDITURES/FYES BY ACTIVITY 1973-74 VS 1969-70 IN ACTUAL DOLLARS ($)

Institution	Instructional (1) and Program		Physical Plant Maintenance and Operation		Other Education and General		Total Education and General	
	1969-70	1973-74	1969-70	1973-74	1969-70	1973-74	1969-70	1973-74
North Central Mich.	526	1,037	167	329	1,266	869	1,450	NA
Northwestern Mich.	679	1,199	126	270	153	400	1,239	1,869
Oakland	547	1,077	183	267	1,390	370	1,495	1,718
St. Clair County	743	1,472	86	163	360	367	1,525	2,168
Schoolcraft	685	1,141	167	246	260	433	1,442	1,884
Southwestern Mich.	885	1,135	69	56	148	231	1,436	2,083
Washtenaw	787	1,673	154	277	358	589	1,941	2,541
Wayne County	NA	724	NA	204	NA	512	1,040	1,620
West Shore	510	197	47	254	275	1,572	2,580	2,024
Statewide Average	640	1,099	136	204	382	440	1,336	1,806

(1) Includes the categories of instruction and departmental research; organized activities related to educational departments; extension and public service; and libraries.

TABLE XIII
NON-PUBLIC INSTITUTIONS: INDEX OF TOTAL EDUCATION AND GENERAL EXPENDITURES/FTE 1969-70 VS 1973-74

INSTITUTION	$/FTE 1969-70	$/FTE 1973-74	Index 1973-74 to 1969-70 (%)
Adrian College	$1,842	$2,822	153.2
Albion College	2,524	NA	NA
Alma College	2,189	3,108	142.0
Andrews University	2,301	3,142	136.5
Aquinas College	1,700	2,520	148.2
Calvin College	1,418	1,925	135.8
Calvin Theological	2,072	3,686	177.9
Cleary College	NA	1,351	NA
Concordia Lutheran	1,645	955	58.1
Cooley Law School	NA	NA	NA
Cranbrook Academy	3,633	4,196	115.5
Davenport College	857	1,545	180.3
Detroit Bible Coll.	1,080	1,570	145.4
Detroit Coll. of Bus.	856	963	112.5
Detroit Coll. of Law	907	1,011	111.5
Detroit Inst. of Tech.	1,416	3,479	245.7
Duns Scotus College	1,843	6,898	374.3
Faithmmy Baptist Coll.	NA	NA	NA
General Motors Inst.	NA	NA	NA
Grace Bible College	1,654	2,387	144.3
Grand Rapids Baptist	1,182	1,720	145.5
Great Lakes Bible	NA	2,891	NA
Hillsdale College	2,355	3,158	134.1
Hope College	1,891	2,865	151.5
John Wesley College	2,114	6,976	330.0
Kalamazoo College	2,529	3,198	126.5
Lawrence Inst. of Tech.	851	1,001	117.6
Madonna College	1,415	1,351	95.5
Marygrove College	2,091	2,961	141.6
Mercy College of Detroit	1,967	2,200	111.8
Merrill-Palmer Inst.	5,849	NA	NA
Michigan Christian	1,921	2,518	131.1
Muskegon Bus. Coll.	1,349	975	72.3
Nazareth College	2,696	3,552	131.8
Northwood Institute	920	2,202	239.3

TABLE XIII, NON-PUBLIC INSTITUTIONS: INDEX OF TOTAL EDUCATION AND GENERAL EXPENDITURES/FTE 1969-70 VS 1973-74, (CONTINUED)

	$/FTE		Index 1973-74 to 1969-70 (%)
	1969-70	1973-74	
Olivet College	$2,147	$2,648	123.3
Reformed Bible College	1,677	1,756	104.7
Sacred Heart Seminary	2,982	6,768	227.0
Saint Mary's College	1,688	5,529	327.5
Shaw Coll. at Detroit	NA	2,503	NA
Siena Heights College	1,589	2,611	164.3
Society of Arts & Crafts	8,282	2,221	26.8
Spring Arbor College	1,703	2,447	143.7
Suomi College	1,879	2,809	149.5
Univ. of Detroit	1,863	2,471	132.6
Walsh College	NA	1,182	NA
Western Theological	3,693	4,170	112.9
STATEWIDE AVERAGE	1,658	2,221	134.0

Although it might not always be appropriate to conclude (as noted above) that a more rapid rise in Total Educational and General Expenditures vs. the Consumer Price Index reflects actual higher rises in educational costs, it does seem appropriate to conclude that if the rise of Total Educational and General Expenditures (and for selected institutions) does not correspond to the rise in the Consumer Price Index, it probably signals a reduction in the maintenance of existing program levels (and perhaps quality), or foregoing planned programs or other improvements since all available data suggests that higher educational costs at least match/or exceed the consumer's.

Accordingly, it may be concluded that the existing levels of education programs/activities has probably been maintained on a statewide basis for all categories of institutions for the period 1969-70 to 1973-74. However, it is also noted that selected institutions do not appear to have kept pace in all categories, and that maintenance of existing program quality for all institutions may now be threatened by a reduction in real term support/FYES in 1974-75, and beyond. (Of course, lower expenditures/FYES does not always need to imply that lower program quality will result. It can also indicate improved efficiency of operations, for example.)

For example, an analysis of Tables IX - XIII suggests that individual public and private institutions such as Oakland University, Oakland Community College, Montcalm Community College, Concordia Lutheran, and Cranbrook may have experienced cutbacks in program support/other activities over the 1969-70 to 1973-74 time period because their expenditures do not appear to have kept pace with the rise in cost of living.

When individual categories of expenditures (i.e., Instruction and Program, Physical Plant Maintenance and Operation; Other Education and General) are examined for public institutions (see Tables IX - XII), there are significant variations in the rate of increase and absolute level of expenditures by institution by category. In part, these variations can be explained by the distinct institutional roles, program mix, conditions of existing physical facilities, economies of scale, and other factors. Allowing for these variables, there are still variances which appear difficult to explain on an objective educational cost basis.

For example, among public baccalaureates, Central Michigan University's index of expenditures rise for physical plant maintenance and operation/FYES as well as the absolute level/FYES (98.1 and $265) vs. the statewide average suggests that this category is not receiving the attention that inflation rates would indicate are demanded to maintain existing facilities. On the other hand, the index and absolute levels/FYES of Other Education and General Expenditures at the University of Michigan - Dearborn (191.0 and $661) and Saginaw Valley (164.7 and $1,038) appear to be abnormally high. Oakland University's expenditures on Instruction and Program (113.8 index rise and $1,320/FYES) and that of Saginaw Valley (102.9 index and $1,112/FYES) compared to the statewide average (132.1 index and $1,900/FYES) appear to be quite low.

Among community colleges, there is also considerable variation from institution to institution by category of expenditure. Part of the variance may be explained by HEGIS reporting error, or simply be due to size factors (i.e., small adjustments cause major shifts in total figures due to small institutional size). But, other variables causing the variance can also be isolated. For example, it would appear that

Washtenaw's instructional/program and physical facilities maintenance/operation costs are far above the statewide average in 1973-74 ($1,673/FYES vs. $1,099 statewide and $277/FYES vs. $204/FYES statewide respectively) in part because of their high SEV and levied millage rate. West Shore and Glen Oaks' Other Education and General Expenditures/FYES in 1973-74 appear high when compared to other similar small/rural colleges such as Bay de Noc, while these same institutions' expenditures on instructional and program activities appear comparatively low. Similarly, Wayne County or Lake Michigan's instructional and program expenditures/FYES in 1973-74 ($724 and $820 respectively) are probably low compared to the statewide average of $1,099/FYES because of lower local tax revenues, high use of part-time faculty, minimum overhead costs for facilities, and the large ratio of Liberal Arts/Business students as a percent of total enrollments.

Projections of Higher Education Enrollments, State Support, and Educational Costs to 1980 and 1985

Projections of expected higher education enrollments (using both the Constant Ratio and Straight Line Methods), state general purpose expenditures for higher education operating expenses, and the expected rise in educational costs indicate that support in real term dollars/FYES (i.e., after discounting for inflation) will continue to decline through 1980 and 1985. Furthermore, the level of state expenditures/FYES by institution will continue to deviate substantially from the statewide average if present appropriation policy continues.

Table XIV summarizes projected 1980 and 1985 real term state expenditures for the operating costs of public higher education/FYES using both the Constant Ratio and Straight Line enrollment projections, and three alternative inflation rates (6%, 8%, 10%/year) to represent the anticipated

rise in educational costs (Figures II and III graphically represent the figures in Table XIV). The Table also contains comparable figures for the Executive Office's recommended budget for 1975-76.

The data shows that using either one of the projected enrollment methods, assuming that the Department of Management and Budget's estimates for growth in total state general purposes expenditures are correct (8%/year), and assuming an annual educational cost increase rate of 10%/year, real term support/FYES is expected to decline for both public baccalaureate and community colleges through 1980 and 1985 (See Figure IV for a graphic display of the figures).

PROJECTIONS OF STATE APPROPRIATIONS REAL TERM SUPPORT/FYES ($)

	1974-75 Actual	1975-76 Ex.Off. Recomm.	1980 and 1985 Projections			
			1980		1985	
			Con.Rat.	St.Line	Con.Rat.	St.Line
Baccalaureates	1,392	1,388	1,191	1,197	988	986
Comm. Colleges	578	554	424	492	352	424

Tables XV-XVIII project actual total and FYES state appropriations for each public baccalaureate institution and community college to 1980 and 1985 using only the Constant Ratio enrollment projections for illustrative purposes. (See Figure V for a graphic display.)

It can be argued that the estimated rate of increase of educational cost/year or the estimated rise in state general purpose expenditures/year are not appropriate, which of course would alter the above projections. It is believed that the projected rise in educational costs (10%/year) is realistic, and that if anything, the Department of Management and Budget's projected state general purpose revenues may be overly optimistic (8%

increase/year) - thereby raising the possibility that real term state support/FYES for higher education may actually be even lower than projected.

Several recent studies indicate that higher education costs have risen at rates higher than the consumer price index.[9] The Office of Revenue and Tax Analysis of the Department of Management and Budget presently estimates that consumer prices will rise at a rate of 6%/year based on Chase Econometric Statistics, Inc. projections. It should be noted that this is a conservative estimate. Wharton Econometric Forecasting Associates, for example, notes present rates of inflation are 9.5%, and are expected to continue at least until 1978, and President Ford's own Council of Economic Advisors' projects an inflation rate of 11%.[10] At the same time, several forecasters do not share Management and Budget's projections that state revenues are likely to increase at 8%/year. In fact, Management and Budget is presently revising its own anticipated revenue estimates for 1975-76 downward from six months ago.

The method used to arrive at the projections displayed in Table XIV has the flexibility to be used to reflect upward or downward movement in either the anticipated revenue or cost side of the projections. Hence, the reader may use the Table to choose his own estimate of anticipated state revenues or educational costs.

For example, Table XIV displays figures for estimated state revenue/FYES for public baccalaureate and community colleges (using both enrollment projection methods) at three distinct annual rates of increase for

(Text continues on p. 44)

9) Kent Halstead, Higher Education Prices and Price Indexes (Washington, D.C., forthcoming). With the rise of faculty collective bargaining in Michigan, educational costs may well rise more rapidly in the 1970's than the 1960's.

10) "Government Plays Down News of Cutback in Research Aid", The Chronicle of Higher Education (Vol.X, No. 18, July 21, 1975), p.1.

TABLE XIV

PROJECTION OF STATE APPROPRIATIONS TO PUBLIC BACCALAUREATE INSTITUTIONS AND COMMUNITY COLLEGES
1975 - 1985 IN ACTUAL AND REAL TERM DOLLARS*

	Ex. Office Recommendation	Constant Ratio			Straight Projection		
	1975-76	1975-76	1980-81	1985-86	1975-76	1980-81	1985-86
ACTUAL DOLLARS							
Total State General Purpose Expenditures ($ million)	3,041.6	3,041.6	4,469.0	6,566.3	3,041.6	4,469.0	6,566.3
Total State Expenditures for Public Higher Education ($ million)	536.2	536.2	804.4	1,181.9	536.2	782.1	1,129.4
(Per FYES)	(1,793)	(1,775)	(2,420)	(3,229)	(1,868)	(2,478)	(3,242)
Baccalaureate	453.7	453.7	688.2	1,011.3	453.7	652.5	912.7
(Per FYES)	(2,208)	(2,214)	(3,051)	(4,073)	(2,249)	(3,066)	(4,065)
Community Colleges	82.5	82.5	116.2	170.6	82.5	129.6	216.7
(Per FYES)	(882)	(850)	(1,087)	(1,450)	(967)	(1,261)	(1,750)
REAL TERM DOLLARS							
Total State Expenditures for Public Higher Education/FYES ($)							
6%/YEAR INFLATION							
Total	1,156	1,144	1,166	1,163	1,204	1,194	1,168
Baccalaureates	1,424	1,428	1,470	1,467	1,450	1,478	1,464
Community Colleges	569	548	524	522	624	608	630

Continued on next page

PROJECTION OF STATE APPROPRIATIONS TO PUBLIC BACCALAUREATE INSTITUTIONS AND COMMUNITY COLLEGES
1975 - 1985 IN ACTUAL AND REAL TERM DOLLARS* (Continued)

	Ex. Office Recommendation	Constant Ratio			Straight Projection		
	1975-76	1975-76	1980-81	1985-86	1975-76	1980-81	1985-86
8%/YEAR INFLATION							
Total	1,141	1,130	1,048	952	1,189	1,073	955
Baccalaureates	1,406	1,409	1,321	1,200	1,432	1,328	1,198
Community Colleges	561	541	471	427	616	546	516
10%/YEAR INFLATION							
Total	1,127	1,116	945	783	1,174	967	786
Baccalaureates	1,388	1,392	1,191	988	1,414	1,197	986
Community Colleges	554	534	424	352	608	492	424

* Total State General Purpose Expenditures are derived by projecting 1975-6 estimated expenditures at an annual growth rate of 8%/year which is the estimate provided by the office of Revenue and Tax Analysis of the Department of Management and Budget. For the Constant Ratio projections, state expenditures for higher education are assumed at 18% of total state general purpose expenditures (with 15.4% for baccalaureates and 2.6% for community colleges) which is the actual expenditure percentage for 1974-75. Constant Ratio projected enrollments are then divided into projected appropriations to obtain /FYES figures. For Straight Line projections, state expenditures for higher education are arrived at by projecting the percent distribution trend from 1969-70 to 1974-75 of actual expenditures. This results in a decline for baccalaureates from 14.9% in 1975-76 to 13.9% in 1985-6, and an increase for community colleges from 2.7% in 1975-6 to 3.3% in 1985-6. Straight Line projected enrollments are then divided into projected appropriations to obtain /FYES figures. Real term/FYES figures are arrived at by calculating three alternative inflation rates/year - 6%, 8% and 10%.

FIGURE II
BACCALAUREATE INSTITUTIONS
PROJECTIONS OF STATE APPROPRIATIONS/FYES 1975-1985 IN REAL TERM
DOLLARS AT THE INFLATION RATES OF 6%, 8%, 10%/YEAR

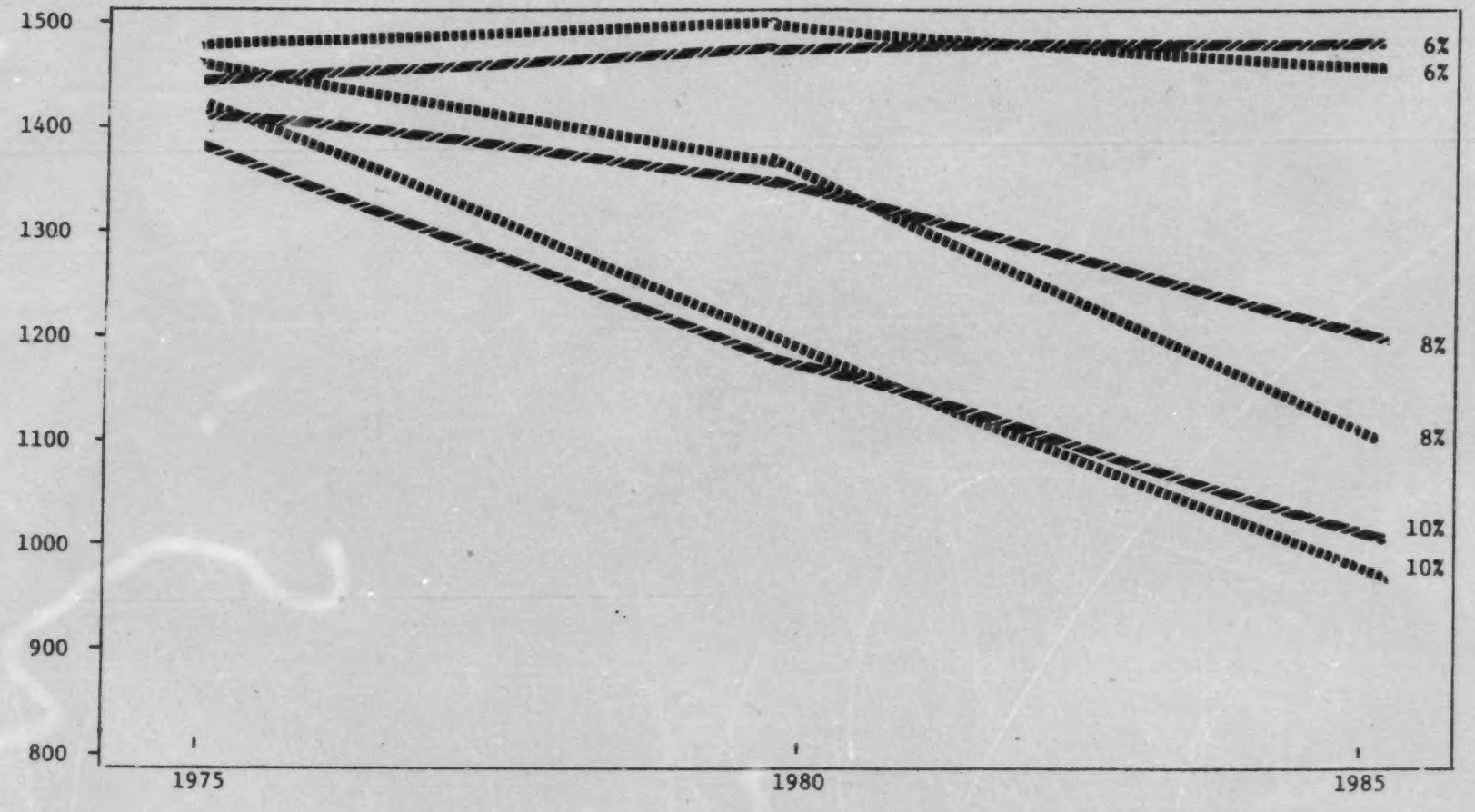


FIGURE III
COMMUNITY COLLEGE INSTITUTIONS
PROJECTIONS OF STATE APPROPRIATIONS/FYES 1975-1985 IN REAL TERM
DOLLARS AT THE INFLATION RATES OF 6%, 8%, 10%/YEAR

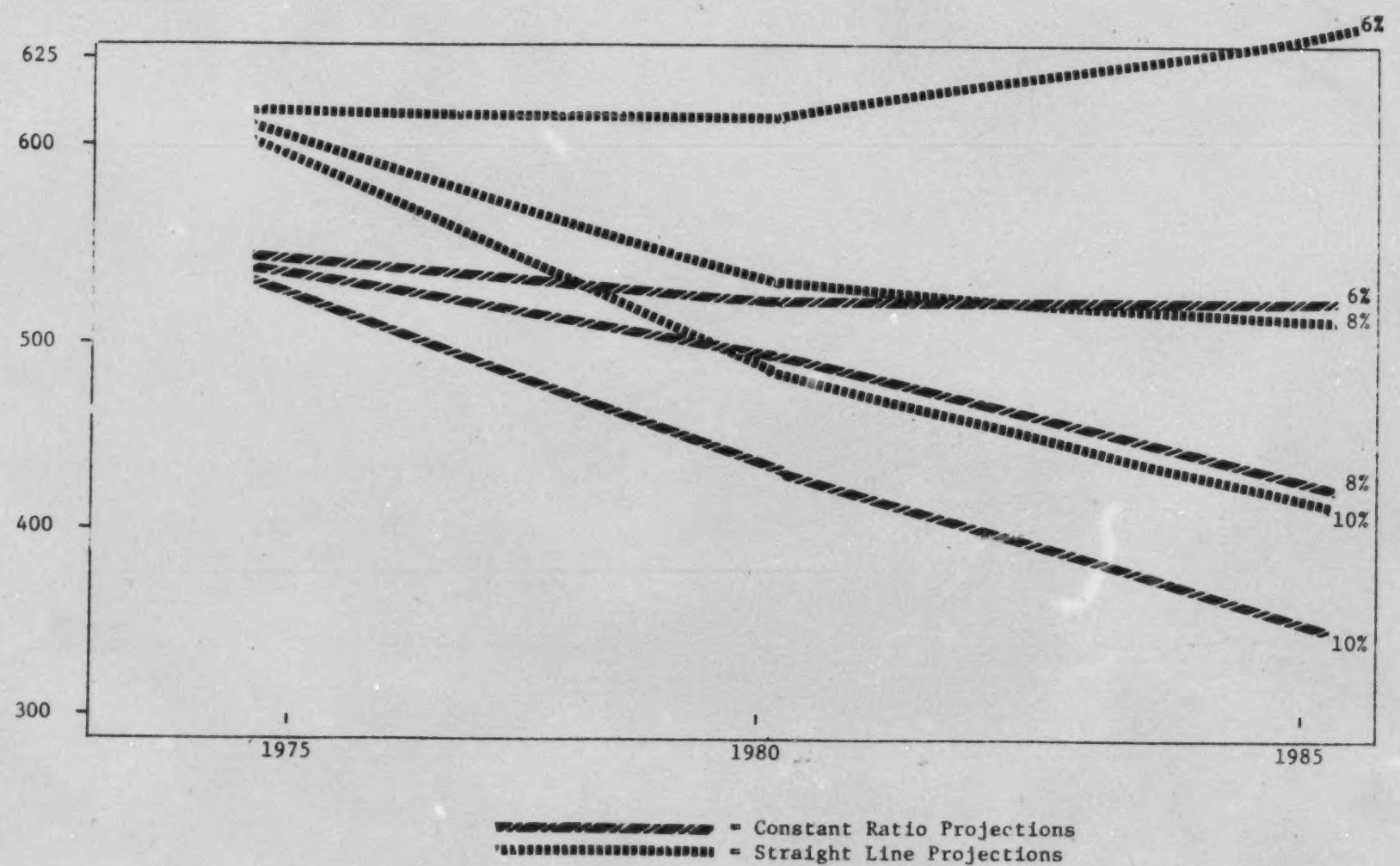
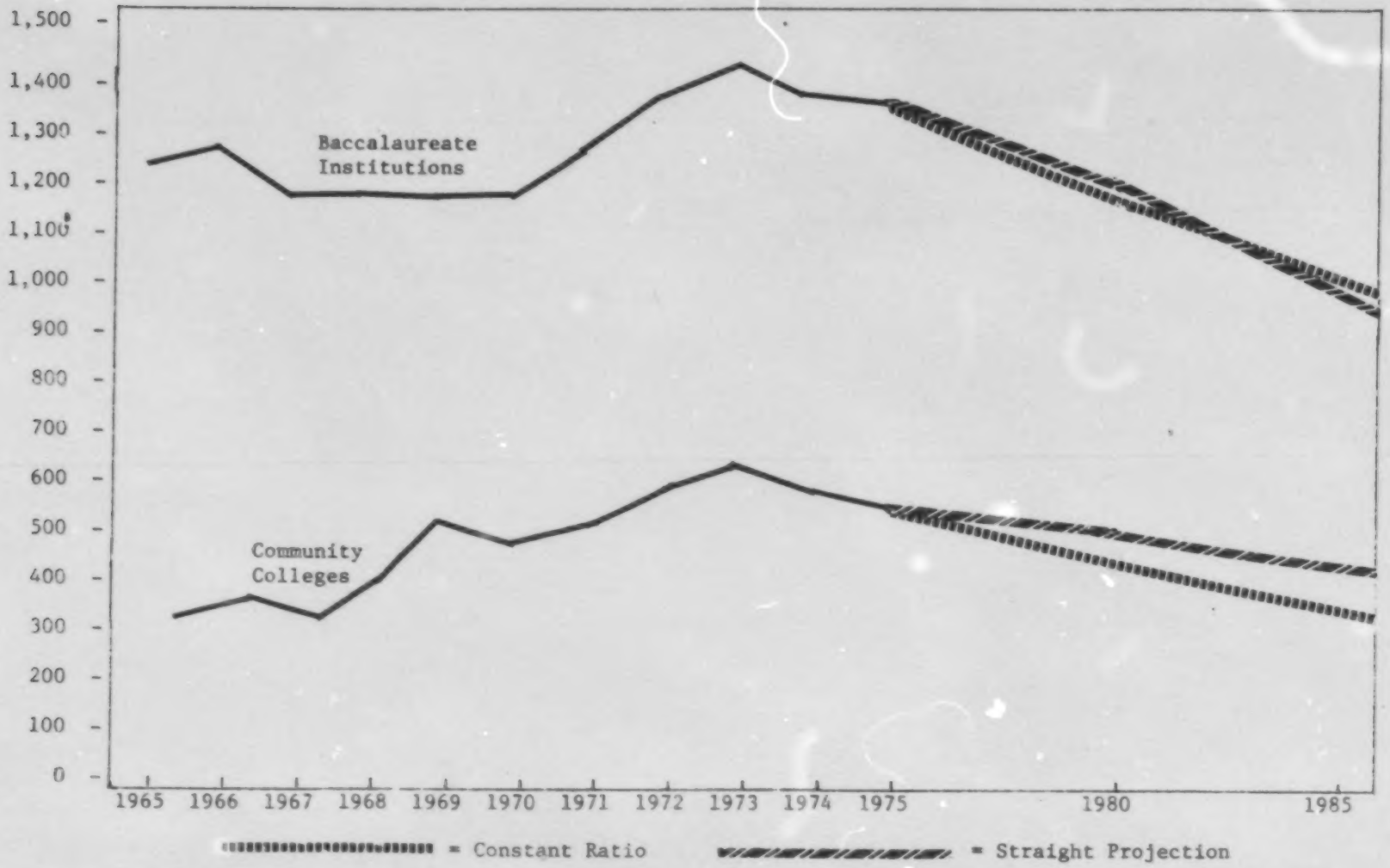


FIGURE IV

STATE APPROPRIATIONS TO PUBLIC BACCALAUREATE AND COMMUNITY COLLEGE INSTITUTIONS/FYES 1965-1975 ACTUAL AND 1975-1985 PROJECTED IN REAL TERM DOLLARS*



*Detroit Cost of Living Index used to calculate real term dollars 1965-1974. Inflation rate of 10% is used after that for 1980-1985 projections.

37

FIGURE V
PROJECTIONS OF STATE APPROPRIATIONS /FYES 1975-1985 IN REAL TERM DOLLARS AT THE INFLATION RATES OF 6%, 8%, 10%/YEAR
(CONSTANT RATIO PROJECTION)

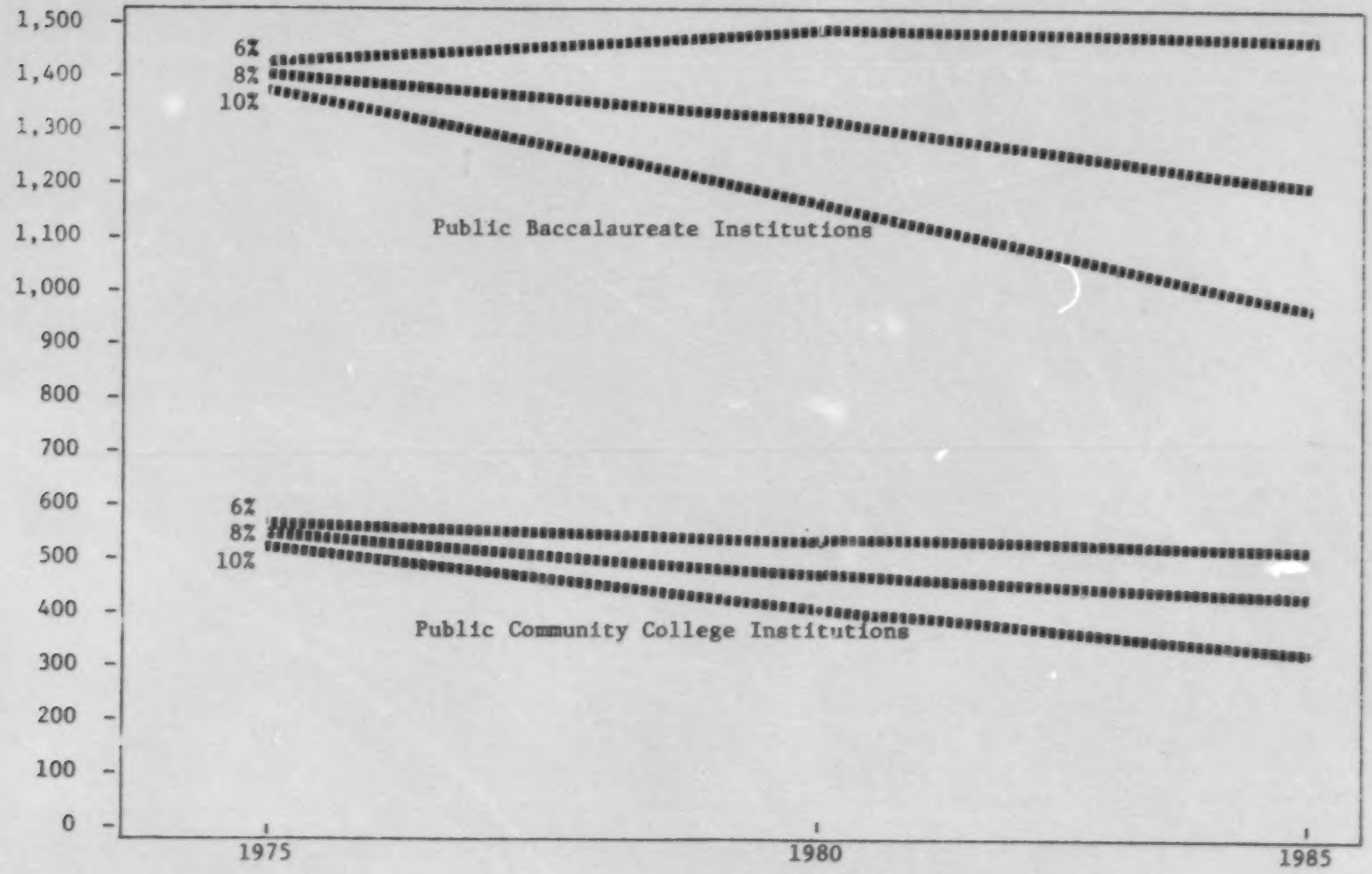


TABLE XV

BACCALAUREATE INSTITUTIONS: PROJECTED ENROLLMENT AND STATE FINANCIAL SUPPORT/FYES - 1980 and 1985

	1973-74			1980			1985		
Institution	% of Enrollment	% of State Expenditures	FYES ($)	Projected % of Enrollment	Projected % of State Expenditures	Proj. FYES ($)	Projected % of Enrollment	Projected % of State Expenditures	Proj. FYES ($)
Central Mich.	7.3	5.1	1,300	7.2	5.0	2,119	7.2	5.0	2,829
Eastern Mich.	8.1	6.1	1,393	7.8	5.9	2,308	7.8	5.9	3,081
Ferris State	4.7	3.6	1,411	5.0	3.8	2,319	5.0	3.8	3,095
Grand Valley	2.7	2.0	1,380	3.0	2.2	2,238	3.0	2.2	3,288
Lake Superior	0.8	0.7	1,641	0.9	0.8	2,713	0.9	0.8	3,620
Michigan State	20.3	20.8	1,903	20.2	20.8	3,142	20.2	20.8	4,193
Mich. Tech.	2.7	2.9	1,974	2.8	3.0	3,269	2.8	3.0	4,602
Northern Mich.	3.8	3.2	1,604	3.7	3.1	2,557	3.7	3.1	3,412
Oakland	4.1	3.3	1,474	4.3	3.5	2,484	4.3	3.5	3,315
Saginaw Valley	0.9	0.7	1,599	1.0	0.8	2,442	1.0	0.8	3,258
Univ. of Mich.									
Ann Arbor	18.4	24.4	2,456	17.7	23.6	4,068	17.7	23.6	5,430
Dearborn	1.3	1.3	1,992	1.9	1.9	3,052	1.9	1.9	4,073
Flint	1.2	1.2	1,823	1.3	1.2	2,817	1.3	1.2	3,759
Wayne State	13.5	16.6	2,288	13.4	16.6	3,780	13.4	16.6	5,045
Western Mich.	10.2	8.1	1,492	9.8	7.8	2,429	9.8	7.8	3,241
Statewide Avg.	100.0	100.0	1,860	100.0	100.0	3,051	100.0	100.0	4,073
State Appropriation/FYES in Real Terms ($)			1,383			1,191			988

* Projected enrollments are based on Constant Ratio method. 1980 and 1985 projections assumes the same ratio between the percentage of total state enrollments and the percentage of total state appropriations as was the case in 1973-74. Projected Real Term State Appropriations/FYES assumes 10%/year inflation rate.

TABLE XVI

PUBLIC BACCALAUREATE INSTITUTIONS
PROJECTED STATE APPROPRIATION
BY INSTITUTION - 1980 and 1985
($)

	1980-1	1985-6
Central Michigan University	34,410,000	50,565,000
Eastern Michigan University	40,603,800	59,666,700
Ferris State College	26,151,600	38,429,400
Grand Valley State Colleges	15,140,400	22,248,600
Lake Superior State College	5,505,600	8,090,400
Michigan State University	143,145,600	210,350,400
Michigan Technological University	20,646,000	30,339,000
Northern Michigan University	21,334,200	31,350,300
Oakland University	24,087,000	35,395,500
Saginaw Valley State College	5,505,600	8,090,400
University of Michigan		
Ann Arbor	162,415,200	238,666,800
Dearborn	13,075,800	19,214,700
Flint	8,258,400	12,135,600
Wayne State University	114,241,200	167,875,800
Western Michigan University	53,679,600	78,881,400
Total	688,200,000	1,011,300,000

TABLE XVII

PUBLIC COMMUNITY & JUNIOR COLLEGES - PROJECTED ENROLLMENT AND STATE FINANCIAL SUPPORT FYES - 1980 and 1985

	1973-74			1980			1985		
Institution	% of Enrollment	% of State Expenditures	FYES ($)	Projected % of Enrollment	Projected % of State Expenditures	Proj. FYES ($)	Projected % of Enrollment	Projected % of State Expenditures	Proj. FYES ($)
Alpena	1.3	1.7	1,022	1.1	1.4	1,383	1.1	1.4	1,846
Bay de Noc	0.8	1.0	1,085	0.7	0.9	1,398	0.7	0.9	1,863
C.S. Mott	6.3	5.9	757	6.4	5.8	986	6.4	5.8	1,317
Delta	5.7	5.3	748	5.4	4.9	988	5.4	4.9	1,319
Glen Oaks	0.7	0.8	934	0.7	0.8	1,243	0.7	0.8	1,656
Gogebic	0.8	1.1	1,238	0.8	1.1	1,495	0.8	1.1	1,994
Grand Rapids Jr.	5.1	4.7	753	4.9	4.4	997	4.9	4.4	1,306
Henry Ford	7.5	7.4	808	7.4	7.4	1,088	7.4	7.4	1,453
Highland Park	2.9	3.2	873	2.5	2.8	1,218	2.5	2.8	1,624
Jackson	3.0	3.7	1,002	3.8	4.6	1,316	3.8	4.6	1,755
Kalamazoo	3.0	3.0	810	2.7	2.7	1,087	2.7	2.7	1,450
Kellogg	2.7	3.0	905	2.5	2.8	1,218	2.5	2.8	1,624
Kirtland	0.7	0.9	1,066	0.8	1.0	1,359	0.8	1.0	1,813
Lake Michigan	1.9	1.8	775	1.7	1.5	959	1.7	1.5	1,280
Lansing	6.1	6.3	836	7.6	7.6	1,074	7.6	7.6	1,450
Macomb County	12.0	11.7	797	12.1	12.0	1,070	12.1	12.0	1,428
Mid Michigan	0.6	0.8	1,028	0.7	0.9	1,398	0.7	0.9	1,863
Monroe	1.3	1.2	756	1.2	1.1	996	1.2	1.1	1,329
Montcalm	0.8	1.0	1,055	0.7	0.9	1,398	0.7	0.9	1,863
Muskegon	2.9	3.1	883	3.0	3.3	1,196	3.0	3.3	1,595
North Central	0.7	0.9	974	0.7	0.9	1,398	0.7	0.9	1,863
Northwestern	2.1	2.5	986	2.0	2.4	1,304	2.0	2.4	1,740
Oakland	10.9	9.5	714	9.5	8.6	985	9.5	8.6	1,315
St. Clair County	2.3	2.4	845	2.5	2.5	1,087	2.5	2.5	1,450
Schoolcraft	4.7	4.3	738	4.6	4.1	969	4.6	4.1	1,292

TABLE XVII

PUBLIC COMMUNITY & JUNIOR COLLEGES - PROJECTED ENROLLMENT AND STATE FINANCIAL SUPPORT FYES - 1980 and 1985
(Continued)

	1973-74			1980			1985		
Institution	% of Enrollment	% of State Expenditures	FYES ($)	Projected % of Enrollment	Projected % of State Expenditures	Proj. FYES ($)	Projected % of Enrollment	Projected % of State Expenditures	Proj. FYES ($)
Southwestern	1.0	1.4	1,075	1.1	1.5	1,482	1.1	1.5	1,978
Washtenaw	2.9	3.0	854	3.1	3.1	1,087	3.1	3.1	1,450
Wayne County	8.7	7.7	719	9.2	8.3	988	9.2	8.3	1,309
West Shore	0.6	0.7	912	0.6	0.7	1,269	0.6	0.7	1,682
State Total	100.0	100.0	813	100.0	100.0	1,087	100.0	100.0	1,450

* Projected enrollments are based on Constant Ratio method. 1980 and 1985 projections assume the same ratio between the percentage of total state enrollments and the total state appropriations as was the case in 1973-74. Projected Real Term State Appropriations/FYES assumes 10%/year inflation rate.

TABLE XVIII

PUBLIC COMMUNITY AND JUNIOR COLLEGES
PROJECTED STATE APPROPRIATION
BY INSTITUTION - 1980 and 1985
($)

	1980	1985
Alpena Community College	1,626,800	2,388,400
Bay de Noc Community College	1,045,800	1,535,400
C.S. Mott Community College	6,739,600	9,894,800
Delta College	5,693,800	8,359,400
Glen Oaks Community College	929,600	1,364,800
Gogebic Community College	1,278,200	1,876,600
Grand Rapids Junior College	5,112,800	7,506,400
Henry Ford Community College	8,598,800	12,624,400
Highland Park Community College	3,253,600	4,776,800
Jackson Community College	5,345,200	7,847,600
Kalamazoo Valley Community College	3,137,400	4,606,200
Kellogg Community College	3,253,600	4,776,800
Kirtland Community College	1,162,000	1,706,000
Lake Michigan College	1,743,000	2,559,000
Lansing Community College	8,831,200	12,965,600
Macomb County Community College	12,944,000	20,472,000
Mid Michigan Community College	1,045,800	1,535,400
Monroe County Community College	1,278 200	1,876,600
Montcalm Community College	1,045,800	1,535,400
Muskegon Community College	3,834,600	5,629,800
North Central Michigan College	1,045,800	1,535,400
Northwestern Michigan College	2,788,800	4,094,400
Oakland Community College	9,993,200	14,671,600
St. Clair County Community College	2,905,000	4,265,000
Schoolcraft College	4,764,200	6,994,600
Southwestern Michigan College	1,743,000	2,559,000
Washtenaw Community College	3,602,200	5,288,600
Wayne County Community College	9,644,600	14,159,800
West Shore Community College	813,400	1,194,200
TOTAL	116,200,000	170,600,000

educational costs (6%, 8%, 10%) - while anticipated state revenues are held constant at 8%/year. But, the Table can be used to adjust the revenue side upward or downward also. If it is estimated, for example that state revenue will increase at 4%/year, and educational costs will increase at 6%/year over the same period, the real term support/FYES will be the same as in the last column of the Table marked "10%/year".

Table XIX summarizes some alternative projected real term rates of state support/FYES assuming different rates of inflation and state revenue to 1980 and 1985.

Alternative Public Policies for Financing of Higher Education in Michigan to 1980 and 1985

The projections to 1980 and 1985 outlined above suggest that state and federal policy-makers should consider several possible alternative public policies for the financing of public and non-public higher education in Michigan if real term dollar levels of support/FYES are to be re-established at 1973-74 levels, and maintained in the decade ahead.[11]

One of the obvious alternatives would be to allocate a greater percentage of state general purpose expenditures to finance higher education operating expenses than is presently being allocated. This would require reduction in the total percentages allocated to other

---

11) Attention is called to a two-year project by ECS and the State Higher Education Executive Officers Association (SHEEO) funded by the Lilly Endowment, Inc. One of the project's major concerns is the relationship of planning and budgeting. Dr. Richard Millard, Director of Higher Education Services for ECS notes, "The importance of statewide planning is growing at a time of increasing costs and decreasing enrollments among traditional college-age students." See "Post-secondary Planning Effort Gets $300,000", Education Commission of the States Bulletin (Vol. VIII, No. 1, January, 1975), p. 2. It should be noted that enrollment among non-traditional students appears to be on the increase in Michigan. Whether this trend will be sufficient to offset the expected decline in traditional students is not clear at this time but many observers such as President Fleming at the University of Michigan doubt it.

TABLE XIX

PROJECTED 1980-1985 REAL TERM STATE APPROPRIATIONS/FYES ($)

	Projecting Method	Baccalaureates		Comm. Colleges	
		1980	1985	1980	1985
1. 4% State Revenue & 6% Cost Increase	CR	1,191	988	424	352
	SL	1,197	986	492	424
2. 6% State Revenue & 8% Cost Increase	CR	1,191	988	424	352
	SL	1,197	986	492	424
3. 8% State Revenue & 10% Cost Increase	CR	1,191	988	424	352
	SL	1,197	986	492	424
4. 8% State Revenue & 8% Cost Increase	CR	1,321	1,200	471	427
	SL	1,328	1,198	546	516
5. 8% State Revenue & 6% Cost Increase	CR	1,470	1,467	1,478	146
	SL	1,197	986	492	424

* CR = Constant Ratio
SL = Straight Line

major functions of government whose share of total state revenues has increased dramatically in recent years.

Another plausable policy option would be a total review of Michigan's present higher education system from a statewide perspective. The objective of this review would be to help insure that (1) as many educational needs of all Michigan's citizens are being met as funds provide for, and that (2) the delivery of educational programs is as effective/efficient as it can be. This statewide review would include the development of a revised State Plan for Higher Education, revision of institutional role statements, examination of existing program offerings in light of revised role statements, projected manpower needs and unit costs by program and level of instruction, and a review of the viability of existing public institutions (which might possibly lead among other things to the examination of the viability of considering consolidation or closure of selected institutions which may be operating on a marginally high cost basis and which show limited prospects for raising enrollments to the point of becoming a viable institution; development of additional cooperative arrangements between public and private institutions than already exist such as regional consortia).

Another alternative policy option available at the state level would be a revision of the present enrollment related funding policies in a manner that would encourage the rational overall statewide development of higher education in Michigan. In the near-term, the present funding policies could be reoriented and modified to include support for a funding formula which might take into account considerations for differential

levels of instruction and program mix as cost data permits.[12] In the long-term (i.e., after 1985), a new formula could be constructed that would fund higher education institutions primarily on the basis of specific program support/services by colleges and universities apart from total enrollment. This approach could be coupled with a reordering of priorities at the federal level which would provide for the development of such programs as a national endowment fund which would "entitle" every state citizen with the ability with an adequate grant to enable them to attend a higher education institution of their choice.[13] Such a program could help resolve the present student need for more college aid, relieve the financial crisis which many of the state's higher education institutions are facing, and benefit society as a whole in terms of a more productive/intelligent citizenry necessary for a stable democratic system of government.

---

12) See the document, Advising on Financial Requirements of Public Baccalaureate Institutions and Public Community Colleges: 1975-76 Operating and Capital Outlay Budget (Lansing, Mi: Michigan Department of Education, 1975), pp. 4-11 for details.

13) For an outline of proposals for federal funding including one from President Clifton Wharton of Michigan State University, see "Finances", College and University Bulletin (Vol. 27, No. 8-9), April-May, 1975, pp. 2-4.

V. APPENDIX

TABLE XX

PUBLIC BACCALAUREATE ENROLLMENTS: 1965-1974 (FYES)

	1965-1966	1966-1967	1967-1968	1968-1969	1969-1970	1970-1971	1971-1972	1972-1973	1973-1974	Index 73/74 to 69/70
Central Mich. Univ.	8,321	9,451	10,722	11,733	13,245	14,676	14,996	14,735	14,659	110.7
Eastern Mich. Univ.	9,743	12,062	14,145	16,111	17,080	18,085	18,396	17,027	16,151	94.6
Ferris St. College	6,659	7,349	8,280	8,816	9,026	9,551	9,645	9,537	9,377	103.9
Gr. Valley St. Coll.	1,046	1,308	1,668	2,166	2,587	3,241	4,041	4,874	5,410	209.1
Lake Sup. St. Coll.	715	877	1,042	1,185	1,372	1,403	1,449	1,640	1,672	121.9
Mich. State Univ.	35,499	37,946	39,497	41,061	41,783	41,253	41,124	40,349	40,623	97.2
Mich. Tech. Univ.	3,825	4,153	4,515	4,786	5,054	5,313	5,426	5,491	5,373	106.3
Northern Mich. Univ.	5,224	6,638	6,943	7,200	7,562	7,723	7,761	7,414	7,498	99.2
Oakland University	2,551	3,239	4,086	4,852	5,905	6,643	6,981	7,403	8,241	139.6
Sag. Valley St. Coll.	---	173	286	528	1,063	1,503	1,658	1,695	1,717	142.7

TABLE XX, PUBLIC BACCALAUREATE ENROLLMENTS: 1965-1974 (FYES) - Continued

	1965-1966	1966-1967	1967-1968	1968-1969	1969-1970	1970-1971	1971-1972	1972-1973	1973-1974	Index 73/74 to 69/70
U of M, Ann Arbor	32,945	33,197	34,459	34,931	34,954	36,093	35,516	36,221	36,744	105.1
U of M, Dearborn	---	702	675	754	724	835	1,400	1,837	2,506	346.1
U of M, Flint	---	737	834	1,065	1,286	1,573	1,820	2,077	2,447	190.3
Wayne St. Univ.	21,877	23,574	24,764	25,803	27,542	28,666	28,942	26,715	26,871	97.6
Western Mich. Univ.	16,365	17,188	18,890	19,928	21,977	22,834	21,867	20,806	20,267	92.2
TOTAL	144,770	158,594	170,806	180,929	191,160	199,392	201,022	197,821	199,556	104.4

SOURCE: Executive Office Budget - 1975

TABLE XXI

PUBLIC COMMUNITY COLLEGE ENROLLMENTS: 1965-1974 (FYES)*

	1965-1966	1966-1967	1967-1968	1968-1969	1969-1970	1970-1971	1971-1972	1972-1973	1973-1974	Index 73/74 to 69/70
Alpena	593	607	728	850	821	821	952	1,080	1,090	132.8
Bay de Noc	261	311	376	419	602	675	715	652	631	104.8
C.S. Mott	3,877	4,264	4,793	4,986	4,370	4,757	5,041	5,199	5,182	118.6
Delta	2,122	2,272	2,872	3,506	3,987	4,438	4,606	4,638	4,678	117.3
Glen Oaks	NA	NA	501	601	571	606	539	486	540	94.6
Gogebic	373	408	451	471	517	575	566	570	615	149.9
Grand Rapids	3,543	3,836	3,889	4,132	4,040	4,331	4,283	4,011	4,161	103.0
Henry Ford	2,880	5,069	5,138	5,229	5,991	5,854	5,269	5,614	6,159	102.8
Highland Park	1,962	2,569	2,850	3,011	2,646	2,443	2,598	2,519	2,413	91.2
Jackson	1,601	1,606	1,778	1,986	2,159	1,986	2,141	2,268	2,443	113.2
Kalamazoo	NA	NA	NA	1,013	1,673	2,016	2,221	2,419	2,470	147.6
Kellogg	1,564	1,783	1,801	1,760	1,915	2,105	2,227	2,222	2,233	116.6
Kirtland	-	-	-	148	253	371	425	504	581	229.6
Lake Michigan	1,327	1,423	1,320	1,333	1,462	1,634	1,832	1,607	1,520	104 0
Lansing	2,845	3,398	3,641	4,516	3,975	4,145	4,224	4,711	5,006	125.9
Macomb County	4,346	5,673	5,930	7,075	8,939	10,007	10,204	9,539	9,883	110.6
Mid Michigan	NA	NA	NA	144	371	378	416	474	490	132.1
Monroe County	NA	270	672	972	1,118	1,188	1,189	1,079	1,043	93.3
Montcalm	NA	12	161	523	541	504	457	567	636	117.6
Muskegon	2,149	2,367	2,549	2,623	2,543	2,557	2,445	2,263	2,341	92.1
North Central	341	386	422	504	548	567	548	576	602	109.9
Northwestern	1,003	1,100	1,194	1,200	1,173	1,481	1,623	1,627	1,700	144.9
Oakland	2,469	2,754	4,080	6,801	8,870	9,807	9,514	8,717	8,913	100.5
St. Clair Co.	1,661	1,607	1,633	1,844	1,904	2,058	2,018	1,943	1,867	98.1
Schoolcraft	1,772	2,273	2,645	3,077	3,395	3,649	3,705	3,725	3,873	114.1

TABLE XXI, PUBLIC COMMUNITY COLLEGE ENROLLMENTS: 1965-1974 (FYES)* (Continued)

	1965-1966	1966-1967	1967-1968	1968-1969	1969-1970	1970-1971	1971-1972	1972-1973	1973-1974	Index 73/74 to 69/70
Southweatern	NA	297	583	643	685	816	815	834	841	122.8
Washtenaw	NA	839	1,571	2,115	2,226	2,276	2,377	2,291	2,361	106.1
Wayne Co.	NA	NA	NA	NA	2,923	4,874	6,037	7,261	7,151	244.6
West Shore	NA	NA	NA	31	221	419	487	538	508	298.6
STATE TOTAL	36,689	45,124	51,578	51,513	70,439	77,338	79,464	79,934	81,931	116.3

Source: Historical Enrollment Summary (Lansing: Senate Fiscal Agency 1975) and Statistical Report (Lansing: Senate Fiscal Agency 1974)

* Fiscal agency reports for the years 1969-1974 do not always agree on enrollment figures. Where conflict occurs, the institutions have been contacted, and most reliable figures used.

TABLE XXII

NON-PUBLIC COLLEGES AND UNIVERSITIES - ENROLLMENT (FALL): 1966-1973 (FTE)

Institution	1966	1967	1968	1969	1970	1971	1972	1973	1974	% of Total	1973 Index to 1969
Adrian	1,431	1,494	1,546	1,457	1,536	1,410	1,161	1,108	995	2.1	76.0
Albion	1,641	1,689	1,784	1,810	1,799	1,761	1,767	1,769	1,756	3.7	97.7
Alma	1,071	1,135	1,210	1,251	1,273	1,320	1,229	1,209	1,151	2.4	96.6
Andrews	1,407	1,832	1,889	1,867	1,883	1,844	1,909	2,054	2,174	4.5	110.0
Aquinas	1,184	1,321	1,170	1,244	1,204	1,137	1,177	1,221	1,266	2.7	98.2
Calvin	3,175	3,266	3,501	3,500	3,317	3,182	3,096	3,152	3,296	6.9	90.1
Calvin Sem.	65	NA	NA	169	147	131	136	138	157	0.3	81.7
Cleary	993	871	640	526	396	376	376	405	423	0.9	77.0
Concordia Luth.	508	505	491	471	504	465	471	953	443	0.9	202.3
Cooley Law Sch.	-	-	-	-	-	-	-	-	423	0.9	-
Cranbrook Acad.	121	122	116	124	119	154	147	146	156	0.3	117.7
Davenport	999	1,009	881	1,034	1,079	1,084	1,079	989	1,231	2.6	95.6
Detroit Bible	NA	268	286	295	264	235	253	239	219	0.5	81.0
Det. Coll. of Bus.	NA	901	943	848	894	874	889	938	2,258	4.6	110.6
Det. Coll. of Law	464	484	415	425	628	564	875	871	914	1.9	204.9
Det.Inst. of Tech.	1,029	1,212	1,044	982	860	793	722	847	1,184	2.5	86.3
Duns Scotus	90	67	81	165	107	143	170	64	56	0.1	38.8
Faithway Baptist	-	-	-	-	-	-	-	-	49	0.1	NA
G.M.I.	2,857	2,920	2,892	2,932	2,936	2,886	3,114	3,189	3,039	6.3	108.8
Grace Bible	107	99	108	106	121	133	123	102	109	0.2	97.2
G.R. Baptist	421	473	458	586	668	624	653	699	752	1.6	119.3
Gr. Lakes Bible	-	-	-	-	-	-	-	119	163	0.3	NA
Hillsdale	1,038	1,127	1,144	1,124	1,061	1,093	1,080	1,012	950	2.0	90.0
Hope	1,772	1,805	1,916	1,992	2,022	2,053	2,095	1,949	2,067	4.3	97.8
John Wesley	NA	201	146	117	134	171	232	336	450	0.9	287.2

TABLE XXII, NON-PUBLIC COLLEGES AND UNIVERSITIES - ENROLLMENT (FALL): 1966-1973 (FTE)

Institution	1966	1967	1968	1969	1970	1971	1972	1973	1974	% of Total	1973 Index to 1969
Kalamazoo	564	1,211	1,282	1,326	947	1,316	1,371	1,356	1,400	2.9	102.3
Lawrence Inst.Tech	2,786	3,030	3,225	3,221	2,970	2,750	3,083	2,962	3,331	6.9	92.0
Madonna	461	563	550	467	408	447	515	781	1,102	2.3	167.2
Marygrove	1,297	1,148	908	845	811	841	816	695	799	1.7	82.2
Mercy	1,031	1,130	1,054	1,002	1,266	1,366	1,526	1,581	1,653	3.5	157.8
Merrill Palmer	NA	98	135	180	66	84	57	71	63	0.1	39.4
Mich. Christian	227	225	174	170	204	238	191	160	176	0.4	94.1
Muskegon Business	418	265	134	229	249	222	355	409	423	0.9	178.6
Nazareth	436	484	480	460	381	380	428	464	385	0.8	100.9
Northwood	1,070	992	1,013	1,123	1,422	1,232	1,065	1,285	1,413	3.0	114.4
Olivet	710	750	806	803	835	795	754	767	792	1.7	95.5
Reformed Bible	NA	103	99	70	84	103	160	176	190	0.4	251.4
Sacred Heart	240	218	224	196	158	113	111	95	86	0.2	48.5
Saint Mary's	NA	131	116	101	116	86	83	72	94	0.2	71.3
Shaw	NA	NA	NA	NA	416	588	717	974	1,180	2.5	NA
Siena Heights	663	672	569	525	532	474	538	664	929	1.9	126.5
Soc.Arts & Crafts		486	67	78	155	173	428	437	446	0.9	560.3
Spring Arbor	575	613	604	668	730	693	650	724	777	1.6	108.4
Suomi	NA	351	307	347	373	386	338	304	374	0.8	87.6
U of D	6,827	6,978	7,100	7,474	6,778	7,234	6,945	6,502	6,357	13.2	87.0
Walsh College	388	373	NA	NA	130	176	205	345	434	0.9	NA
West.Theo.Sem.	91	98	132	104	96	76	95	95	120	0.3	91.3
STATE TOTAL	38,157	42,720	41,640	42,414	42,079	42,206	43,185	44,429	47,733	100.0	104.8

1970-1973 years are reported as submitted by the institutions. 1965-1969 figures are adjusted in order to be comparable to 1970-73 figures as much as possible (Formula used is Full-Time-Students plus one-half of part-time students equals FTE).

TABLE XXIII

PUBLIC BACCALAUREATE INSTITUTIONS: INSTRUCTIONAL AND PROGRAM EXPENDITURES, PHYSICAL PLANT MAINTENANCE AND OPERATION, OTHER EDUCATIONAL AND GENERAL - 1965-1974 ($)

	INSTRUCTIONAL AND PROGRAM EXPENDITURES*								
	1965-1966	1966-1967	1967-1968	1968-1969	1969-1970	1970-1971	1971-1972	1972-1973	1973-1974
Central	5,406,012	6,413,145	8,551,632	10,451,341	12,984,606	14,029,965	16,696,943	18,157,811	20,792,755
Eastern	7,513,511	10,155,795	12,543,757	12,804,810	14,999,025	17,216,123	18,877,718	19,766,608	21,738,922
Ferris	3,852,472	5,744,323	6,517,353	6,919,719	8,181,816	9,345,424	10,838,664	12,146,640	12,148,696
GVSC	1,403,272	1,657,524	1,702,909	2,109,633	2,754,720	3,632,079	4,753,698	6,810,493	8,283,022
Lake Sup.	506,836	735,901	887,577	1,052,504	1,356,049	1,507,339	1,679,090	1,869,533	2,050,252
MSU	58,825,983	72,047,084	59,769,256	68,696,799	74,365,533	80,651,668	77,186,950	82,205,074	87,679,079
Mich.Tech.	4,077,064	4,996,231	5,281,982	5,692,203	6,087,168	7,532,006	7,930,795	9,541,112	11,070,223
Northern	5,075,493	7,750,378	8,925,175	8,335,597	8,149,571	9,626,553	10,237,298	10,825,361	11,646,112
Oakland	2,678,447	3,509,232	4,445,568	5,628,323	6,852,586	7,610,113	8,243,039	9,234,018	10,874,513
Sag.Valley	67,374	259,463	435,149	574,510	1,149,263	1,395,783	1,584,248	1,776,796	1,909,168
U of M									
Ann Arbor	58,694,346	58,250,494	61,037,213	64,620,577	69,293,927	74,752,636	78,640,582	83,801,569	92,144,915
Dearborn	-	-	-	1,689,109	1,842,373	1,883,294	2,439,703	3,086,771	3,918,346
Flint	-	-	-	1,517,492	1,685,313	1,769,541	2,342,356	3,126,520	3,968,664
Wayne	27,437,453	29,124,400	31,714,388	36,896,451	43,120,992	47,090,282	51,043,464	55,827,623	59,997,856
Western	12,584,923	16,063,306	17,232,144	21,233,759	22,135,000	25,935,000	28,397,000	29,556,000	31,021,450
State Tot	188,123,186	216,707,276	219,044,603	248,222,827	274,957,942	303,977,836	320,891,548	347,731,929	379,243,973

* This includes the categories of instruction and departmental research; organized activities related to educational departments; extension and public service; and libraries.

TABLE XXIII, PUBLIC BACCALAUREATE INSTITUTIONS: INSTRUCTIONAL AND PROGRAM EXPENDITURES, PHYSICAL PLANT MAINTENANCE AND OPERATION, OTHER EDUCATIONAL AND GENERAL - 1965-1974 ($) (Continued)

	PHYSICAL PLANT MAINTENANCE AND OPERATION								
	1965-1966	1966-1967	1967-1968	1968-1969	1969-1970	1970-1971	1971-1972	1972-1973	1973-1974
Central	1,001,878	1,217,673	1,490,075	2,865,829	3,577,551	3,528,613	3,289,344	3,933,820	3,888,311
Eastern	1,037,335	1,317,441	1,705,023	2,737,005	4,042,149	4,158,830	4,586,710	4,681,847	3,955,608
Ferris	616,759	877,329	929,750	1,036,972	1,269,232	1,399,513	1,553,177	1,801,800	2,027,109
GVSC	237,542	305,715	369,142	711,634	927,259	1,060,192	1,248,367	1,495,199	1,756,064
Lake Sup.	208,846	248,483	290,827	265,955	327,094	360,388	416,879	458,991	534,462
MSU	7,128,200	7,888,509	8,190,455	13,967,580	14,878,583	14,209,638	14,238,216	16,450,324	20,208,833
Mich.Tech.	958,338	1,212,308	1,025,394	1,821,170	1,951,321	1,893,139	2,023,275	1,825,354	1,982,872
Northern	769,764	847,919	896,535	1,634,689	1,874,504	1,489,808	2,080,236	1,523,644	1,717,004
Oakland	523,843	816,333	853,652	1,034,579	1,260,746	1,529,295	2,034,255	2,211,302	3,149,596
Sag.Valley	62,974	-	24,983	70,713	221,607	377,610	384,063	403,127	430,983
U of M									
Ann Arbor	8,243,445	9,335,817	9,964,404	9,872,685	11,551,984	13,384,803	13,783,059	14,795,727	17,958,333
Dearborn	--	-	-	402,956	380,127	391,331	496,870	806,064	981,498
Flint	-	-	-	246,718	263,043	226,002	358,409	557,744	634,598
Wayne	4,657,585	5,183,659	5,774,269	7,785,515	9,467,478	9,974,317	11,237,172	12,431,340	13,367,401
Western	1,840,338	2,352,545	2,776,980	4,001,883	4,695,000	5,121,000	5,711,000	6,170,000	5,909,000
State Tot.	27,286,847	31,603,731	34,291,499	48,455,883	56,687,678	59,104,479	63,441,032	69,566,283	78,501,672

TABLE XXIII, PUBLIC BACCALAUREATE INSTITUTIONS: INSTRUCTIONAL AND PROGRAM EXPENDITURES, PHYSICAL PLANT MAINTENANCE AND OPERATION, OTHER EDUCATION AND GENERAL - 1965-1974 ($) (Continued)

	OTHER EDUCATIONAL AND GENERAL								
	1965-1966	1966-1967	1967-1968	1968-1969	1969-1970	1970-1971	1971-1972	1972-1973	1973-1974
Central	1,927,484	2,759,552	2,134,922	2,123,891	2,324,613	2,927,712	3,745,795	4,406,561	4,749,011
Eastern	2,606,158	2,792,296	3,901,009	4,362,478	5,502,821	6,424,761	6,775,288	6,951,862	7,827,417
Ferris	1,693,765	1,842,444	1,808,860	2,498,107	3,063,757	4,245,204	2,958,246	2,706,871	4,147,829
GVSC	323,245	566,138	584,550	538,091	693,236	731,337	903,574	1,132,947	1,723,216
Lake Sup.	193,647	563,820	488,131	628,738	715,730	932,912	898,535	997,987	1,201,814
MSU	13,402,470	16,216,096	11,826,731	8,583,992	9,745,962	10,959,357	11,866,096	12,904,482	13,732,707
Mich.Tech.	783,640	1,408,573	1,832,197	2,342,854	2,685,796	1,767,209	1,854,295	1,890,520	2,344,753
Northern	1,328,004	1,339,474	1,611,221	2,512,227	1,920,384	2,002,887	2,230,292	3,054,389	2,478,011
Oakland	1,085,775	1,561,482	1,531,648	1,799,123	2,735,614	2,906,469	2,823,900	3,369,663	3,706,540
Sag.Valley	-	211,329	260,068	449,319	671,505	976,604	1,115,564	1,201,032	1,782,288
U of M									
Ann Arbor	23,914,275	27,717,452	11,691,996	23,601,049	24,384,970	21,910,960	23,894,109	25,344,401	24,914,450
Dearborn	-	-	-	168,782	250,741	598,002	802,566	1,197,947	1,655,820
Flint	-	-	-	249,551	490,924	761,930	1,002,667	1,553,350	1,268,366
Wayne	360,000	8,516,593	9,804,995	11,456,897	11,225,010	12,061,796	11,850,240	12,031,086	13,144,420
Western	4,060,694	3,923,636	4,562,677	3,367,361	3,903,000	4,080,000	4,518,000	4,577,000	4,656,000
State Tot.	51,679,157	69,418,885	52,039,005	64,682,460	70,314,063	73,287,140	77,239,167	83,320,118	89,332,642

TABLE XXIV

PUBLIC BACCALAUREATE INSTITUTIONS: TOTAL EDUCATIONAL AND GENERAL EXPENDITURES - 1965-1974 ($)

	1965-1966	1966-1967	1967-1968	1968-1969	1969-1970	1970-1971	1971-1972	1972-1973	1973-1974
Central	8,385,512	10,399,562	12,194,114	15,452,027	18,897,229	21,403,510	24,565,485	27,606,679	30,346,160
Eastern	11,608,384	14,864,753	18,254,659	21,872,051	26,738,083	29,518,756	32,026,934	33,348,844	33,647,051
Ferris	6,170,787	8,532,959	9,282,310	10,474,034	12,647,257	15,015,652	15,389,298	16,725,236	18,567,386
GVSC	2,021,681	2,540,417	2,690,953	3,412,400	4,394,488	5,429,856	6,958,229	9,518,580	11,839,511
Lake Sup.	909,329	1,548,204	2,004,711	2,155,620	2,751,168	3,413,542	3,445,761	3,720,084	4,086,505
MSU	85,010,339	101,900,287	99,982,016	113,601,254	120,672,386	128,722,896	135,662,310	146,661,284	160,738,408
Mich.Tech.	7,270,708	8,807,312	9,539,211	11,235,273	12,292,915	12,674,493	13,309,041	14,923,645	17,616,207
Northern	7,216,390	10,388,970	11,432,931	12,482,513	11,944,459	13,119,248	14,547,826	15,403,394	15,841,127
Oakland	4,646,382	6,670,506	7,600,826	9,542,671	12,107,064	13,596,767	14,850,057	16,636,854	19,485,643
Sag.Valley	130,348	474,142	720,439	1,095,803	2,054,069	2,835,877	3,215,068	3,599,221	4,320,809
U of M									
Ann Arbor	136,549,077	158,055,926	145,906,050	163,063,904	168,642,555	174,261,647	183,570,436	194,912,782	205,510,631
Dearborn	-	-	-	2,427,173	2,600,912	2,930,695	3,855,475	5,154,766	6,669,396
Flint	-	-	-	2,075,314	2,730,432	2,947,539	3,879,193	5,331,697	5,911,598
Wayne	44,268,241	52,690,487	58,965,384	67,104,290	75,098,126	80,839,548	87,522,850	94,813,494	105,881,313
Western	18,686,805	22,694,182	26,417,196	29,199,623	32,889,000	37,279,000	40,841,000	42,638,000	44,413,000
State Tot.	332,873,983	399,567,707	404,990,800	465,193,950	506,460,143	543,989,026	583,638,963	630,994,560	684,874,745

TABLE XXV

PUBLIC COMMUNITY COLLEGE INSTITUTIONS - INSTRUCTIONAL AND PROGRAM EXPENDITURES: PHYSICAL PLANT AND OPERATION: OTHER EDUCATIONAL AND GENERAL EXPENSE - 1969-70, 1972-73 and 1973-74*

	INSTRUCTIONAL & PROG. EXPENDITURES**			PHYSICAL PLANT AND OPERATION			OTHER EDUCATIONAL & GEN. EXPENSE		
	1969-1970	1972-1973	1973-1974	1969-1970	1972-1973	1973-1974	1969-1970	1972-1973	1973-1974
Alpena	660,993	1,280,886	1,462,400	135,453	199,322	227,707	186,697	572,070	531,126
Bay de Noc	389,483	920,871	1,001,581	51,242	135,909	165,109	125,512	189,321	303,478
C.S. Mott	3,657,618	5,555,433	6,467,690	707,623	1,055,000	1,091,580	820,879	1,770,537	1,717,743
Delta	2,908,600	4,667,236	5,291,826	456,625	773,878	938,294	750,820	2,412,094	2,923,891
Glen Oaks	431,480	458,631	NA	70,298	117,633	NA	253,087	468,594	NA
Gogebic	436,369	665,004	801,290	80,201	94,739	108,108	83,293	177,292	275,293
Gr. Rapids	2,613,984	3,993,034	4,417,994	455,504	892,448	944,178	310,832	890,075	980,230
Henry Ford	3,139,346	5,980,756	6,569,941	865,356	690,446	720,734	1,343,131	872,010	1,411,213
Highland Pk.	2,696,170	2,292,500	2,434,000	360,723	323,000	168,000	532,232	1,141,000	1,227,000
Jackson	1,651,164	2,701,306	3,237,485	301,320	492,255	495,026	502,834	863,111	1,011,620
Kalamazoo	667,779	2,598,376	3,138,482	40,430	463,321	231,861	472,683	620,623	1,177,872
Kellogg	1,135,750	2,319,663	NA	467,037	418,275	NA	305,971	568,039	NA
Kirtland	22,813	422,355	611,516	8,160	138,771	154,600	329,604	330,565	322,654
Lake Mich.	804,820	1,213,601	1,246,759	125,195	327,057	325,143	751,554	967,887	1,077,653
Lansing	2,236,867	4,691,311	5,666,155	400,673	775,636	783,981	1,015,930	2,164,591	2,930,123
Macomb	5,096,386	8,477,217	10,184,634	982,461	1,886,913	2,101,041	2,227,245	2,729,673	3,459,979
Mid Mich.	368,454	655,985	734,117	NA	95,434	104,125	59,935	142,882	192,242
Monroe	698,748	1,093,398	1,168,661	284,718	382,010	407,494	317,159	732,776	795,784
Montcalm	399,210	749,850	840,791	74,076	107,632	127,791	105,207	182,914	261,672
Muskegon	1,650,400	2,487,953	NA	279,522	435,353	NA	600,505	1,212,955	NA

TABLE XXV, PUBLIC COMMUNITY COLLEGE INSTITUTIONS - INSTRUCTIONAL AND PROGRAM EXPENDITURES: PHYSICAL PLANT AND OPERATION: OTHER EDUCATIONAL AND GENERAL EXPENSE - 1969-70, 1972-73 and 1973-74* (Continued)

	INSTRUCTIONAL & PROG. EXPENDITURES**			PHYSICAL PLANT AND OPERATION			OTHER EDUCATIONAL & GEN. EXPENSE		
	1969-1970	1972-1973	1973-1974	1969-1970	972-1973	1973-1974	1969-1970	1972-1973	1973-1974
N. Central	287,979	543,300	NA	91,345	172,300	NA	693,821	455,102	NA
N'western	796,579	1,749,995	2,039,105	148,352	446,977	458,350	179,979	627,184	679,372
Oakland	4,855,226	9,169,442	9,602,530	1,621,766	2,475,645	2,378,325	12,329,022	2,784,307	3,294,163
St. Clair	1,414,920	2,617,983	2,747,359	164,304	347,164	305,153	684,598	685,752	684,464
Schoolcraft	2,325,092	3,959,133	4,418,438	567,634	868,402	954,537	883,193	1,555,617	1,675,383
S'western	606,417	884,976	954,820	47,051	122,270	132,271	101,049	342,154	546,256
Washtenaw	1,751,601	4,356,983	3,949,247	343,714	527,872	653,160	797,277	463,179	1,390,624
Wayne	NA	4,715,238	5,178,577	NA	1,292,925	1,461,525	53,684	3,280,877	3,663,099
West Shore	112,791	72,224	100,181	10,400	133,724	129,232	60,749	773,222	798,602
STATE TOTAL	45,085,038	81,334,640	90,075,126	9,546,602	16,192,311	16,710,886	26,878,482	29,976,403	36,035,226

* Most recent figures are used where current data is not available.

** Includes the categories of instruction and departmental research; organized activities related to educational departments; extension and public service; and libraries.

TABLE XXVI

PUBLIC COMMUNITY COLLEGE INSTITUTIONS: TOTAL EDUCATION AND GENERAL EXPENDITURES - 1965-1974 ($)

	1965-1966	1966-1967	1967-1968	1968-1969	1969-1970	1970-1971	1971-1972	1972-1973	1973-1974
Alpena	536,907	582,068	809,034	1,153,719	1,553,137	1,905,365	1,770,943	2,208,297	2,221,233
Bay de Noc	324,978	411,425	446,772	566,237	754,274	961,484	1,157,702	1,246,101	1,481,999
C.S. Mott	NA	4,243,498	4,587,016	5,279,794	6,455,247	6,834,060	7,863,787	8,803,937	9,937,958
Delta	2,200,300	2,630,425	3,161,101	4,143,607	5,795,096	6,462,926	7,157,562	8,702,849	9,870,314
Glen Oaks	NA	118,503	416,606	754,865	927,726	1,059,821	1,076,300	1,044,858	NA
Gogebic	NA	257,091	303,683	599,863	NA	NA	919,673	1,065,888	1,340,243
Grand Rapids	1,969,465	2,414,594	2,754,868	3,380,320	4,052,376	4,477,295	4,920,208	5,775,557	6,342,402
Henry Ford	NA	4,017,783	4,971,429	5,430,283	6,871,662	NA	7,318,621	7,543,212	8,701,888
Highland Pk.	1,342,441	2,037,901	2,757,463	2,611,871	3,199,000	3,620,000	3,310,886	3,756,500	3,829,000
Jackson	1,293,140	1,721,066	1,925,856	2,455,318	2,755,082	3,152,495	3,793,918	4,353,360	5,018,334
Kalama oo	NA	35,327	248,361	1,180,892	2,205,989	2,684,548	3,471,759	3,723,390	4,633,350
Kellogg	900,382	1,453,399	1,693,804	1,908,758	2,325,911	2,734,885	3,221,714	3,707,370	4,098,393
Kirtland	NA	NA	326,750	377,979	NA	NA	673,409	891,691	1,088,770
Lake Mich.	893,024	1,186,659	1,572,637	1,681,569	1,840,820	2,320,063	2,877,995	2,652,234	2,792,049
Lansing	1,630,471	2,197,784	2,784,250	3,653,470	4,504,857	5,536,298	6,305,463	7,629,535	9,443,327
Macomb	2,637,381	4,324,208	5,894,330	8,306,092	11,036,292	13,103,851	13,603,262	13,093,803	15,745,654
Mid Mich.	12,277	-	155,260	428,389	631,127	659,590	768,805	936,601	1,071,917
Monroe	152,025	471,082	974,494	1,305,171	1,828,534	2,028,509	2,054,185	2,208,184	2,370,939
Montcalm	56,690	-	364,039	578,493	853,402	872,150	868,667	1,040,396	1,230,254
Muskegon	1,158,231	1,463,298	2,025,809	2,575,597	3,337,141	3,856,725	4,317,731	4,340,343	NA
N. Central	212,161	281,297	453,177	1,073,145	794,444	805,577	913,493	1,170,702	NA
N'western	661,516	791,470	922,891	1,124,910	1,452,779	1,874,941	2,417,182	2,824,156	3,176,827
Oakland	3,204,594	4,737,613	5,588,268	18,953,752	13,256,980	14,468,144	14,767,188	14,429,394	15,315,018
St. Clair	979,034	1,149,626	1,463,645	2,285,429	2,904,313	3,203,291	3,339,093	3,732,277	4,047,700
Schoolcraft	1,491,270	2,204,121	2,788,855	3,318,937	4,893,910	5,392,822	6,017,306	6,383,152	7,296,664

TABLE XXVI. PUBLIC COMMUNITY COLLEGE INSTITUTIONS: TOTAL EDUCATION AND GENERAL EXPENDITURES - 1965-1974 ($)

	1965-1966	1966-1967	1967-1968	1968-1969	1969-1970	1970-1971	1971-1972	1972-1973	1973-1974
S'western	115,957	376,166	592,714	754,517	983,599	1,094,548	1,155,238	1,349,400	1,751,670
Washtenaw	124,795	1,171,466	1,903,711	2,892,592	4,321,056	4,378,524	4,851,927	5,351,394	5,998 169
Wayne	-	-	-	53,684	3,039,589	4,933,150	7,506,170	9,289,040	11,582,904
West Shore	-	-	-	183,940	570,081	740,971	925,254	983,105	1,028 015
STATE TOTAL	21,987,039	40,346,837	51,886,823	79,513,193	94,132,266	107,011,537	119,345,441	130,236,726	147,970,894

* Most recent data is used when current year is not available

TABLE XXVII

NON-PUBLIC COLLEGES AND UNIVERSITIES: TOTAL EDUCATION AND GENERAL EXPENDITURES - 1965-1974 ($)

Institution	1965-1966	1966-1967	1967-1968	1968-1969	1969-1970	1970-1971	1971-1972	1972-1973	1973-1974
Adrian	NA	1,900,679	2,113,777	2,394,361	2,683,080	3,146,682	3,240,934	3,093,463	3,127,262
Albion	2,980,159	3,542,139	3,807,304	4,030,131	4,567,949	4,784,477	4,849,124	4,793,109	NA
Alma	NA	NA	2,176,670	2,432,803	2,737,916	3,004,207	3,235,595	3,549,485	3,757,987
Andrews	2,398,645	2,892,006	3,305,099	3,868,989	4,296,278	4,768,909	5,436,402	5,562,376	6,454,642
Aquinas	1,100,721	1,260,451	1,487,145	1,664,378	2,114,418	2,359,563	2,422,243	2,690,157	3,076,898
Calvin	2,501,720	3,181,525	3,779,277	4,347,343	4,964,066	5,326,236	5,299,271	5,477,926	6,068,035
Calvin Sem.	NA	NA	NA	317,062	350,243	394,766	403,539	445,750	508,677
Cleary	NA	NA	NA	402,179	NA	477,861	471,179	500,722	547,132
Concordia L.	600,565	657,664	675,042	690,066	774,748	781,889	839,752	873,282	910,203
Cooley	NA	NA	NA	NA	NA	NA	NA	NA	610,940
Cranbrook	NA	11,495	513,738	434,736	450,530	554,078	705,935	687,049	612,604
Davenport	439,629	518,335	608,084	856,284	886,617	1,110,266	1,441,758	1,414,199	1,528,029
Detroit Bible	223,100	234,016	232,795	281,866	318,587	358,905	347,866	360,241	375,170
Det.Coll. Bus.	NA	NA	306,820	509,159	725,827	794,312	791,965	841,991	902,834
Det.Coll. Law	NA	301,703	309,000	381,000	385,550	505,548	693,457	809,151	880,567
D.I.T.	NA	1,442,479	1,514,439	1,488,390	1,390,285	1,480,494	1,657,271	2,021,415	2,946,341
Duns Scotus	183,241	216,887	234,987	300,690	304,173	400,449	430,042	391,426	441,477
Faithway Bap.	NA	NA	NA	NA	NA	NA	NA	NA	48,550
G.M.I.	8,334,389	9,100,657	10,942,513	NA	NA	NA	NA	NA	NA
Grace Bible	NA	NA	140,239	141,230	175,338	NA	231,955	245,825	245,825
G.R. Baptist	332,767	337,846	471,052	557,600	692,922	778,952	919,809	1,057,156	1,202,488
Great Lakes BC	NA	NA	NA	NA	NA	NA	NA	NA	344,006
Hillsdale	1,387,921	1,772,156	2,291,652	2,519,380	2,647,055	2,712,496	2,999,729	3,517,262	3,196,211
Hope	1,941,343	2,648,013	3,150,381	3,462,837	3,766,648	4,772,653	4,778,665	4,984,221	5,583,904
John Wesley	162,308	235,376	235,686	299,442	247,372	391,073	418,643	786,358	2,344,000

TABLE XXVII, NON-PUBLIC COLLEGES AND UNIVERSITIES: TOTAL EDUCATION AND GENERAL EXPENDITURES - 1965-1974 ($) (Continued)

Institution	1965-1966	1966-1967	1967-1968	1968-1969	1969-1970	1970-1971	1971-1972	1972-1973	1973-1974
Kalamazoo	NA	2,571,844	2,913,142	3,143,933	3,353,465	3,464,790	3,690,530	3,804,000	4,336,825
L.I.T.	1,403,042	1,481,927	1,629,444	1,942,561	2,742,443	2,814,898	2,741,520	2,767,991	2,965,515
Madonna	NA	NA	658,187	600,214	660,801	658,193	681,843	901,963	1,055,341
Marygrove	1,391,937	1,598,850	1,763,265	1,698,134	1,767,284	1,971,163	2,173,963	2,031,334	2,058,135
Mercy	1,421,638	1,635,183	1,843,827	1,893,694	1,971,178	2,172,402	2,876,267	3,150,367	3,478,598
Merrill-Palmer	NA	NA	NA	NA	1,052,777	841,331	923,891	967,682	NA
Mich.Christ.	NA	478,023	285,676	317,926	326,517	NA	468,380	389,358	402,915
Muskegon Bu .	202,747	212,793	229,928	281,159	309,033	380,925	416,622	422,099	398,849
Nazareth	747,048	858,247	1,100,556	1,227,834	1,239,973	1,345,724	1,592,669	1,778,298	1,648,301
Northwood	1,084,682	1,813,711	1,746,919	1,609,394	1,033,287	2,429,552	2,073,277	2,312,574	2,829,924
Olivet	997,815	1,166,195	1,294,610	1,498,445	1,724,016	1,906,599	1,895,577	2,026,159	2,030,783
Reformed Bib.	NA	126,489	151,000	199,000	117,400	206,167	244,260	261,403	309,003
Sacred Heart	436,000	467,058	425,200	687,500	584,400	741,500	746,800	650,600	642,940
Saint Mary's	NA	178,800	NA	239,539	170,443	375,720	463,651	370,806	398,086
Shaw	NA	NA	NA	NA	565,157	859,690	NA	1,273,754	2,438,324
Siena Heights	NA	840,379	881,002	1,075,690	834,248	1,135,556	1,234,671	1,487,432	1,733,530
Soc.Arts & Cfts.	NA	476,195	560,106	605,700	645,968	881,638	919,821	878,581	970,457
Spring Arbor	507,830	648,164	800,190	937,165	1,137,425	1,297,137	1,430,358	1,542,003	1,771,913
Suomi	362,187	527,482	578,898	667,216	651,900	715,283	854,743	810,159	853,809
U of D	9,381,101	10,129,567	10,720,426	12,347,641	13,922,993	15,210,351	14,480,502	15,140,377	16,066,977
Walsh Coll.	180,558	190,692	187,000	209,149	230,000	279,650	272,162	357,988	407,942
West.Theo.Sem.	249,474	306,690	311,499	349,590	384,056	369,086	344,628	408,891	396,184
STATE TOTAL	32,618,178	46,861,059	55,622,861	62,911,410	70,306,545	79,463,026	83,000,959	87,836,383	98,668,824

TABLE XXVIII

PUBLIC COMMUNITY COLLEGES: TOTAL EDUCATION AND GENERAL REVENUES 1965-1974 ($)

Institution	1965-1966	1966-1967	1967-1968	1968-1969	1969-1970	1970-1971	1972-1973	1973-1974	1974-1975
Alpena	397,877	579,515	816,646	1,085,524	1,486,583	1,458,750	1,706,419	2,109,008	2,282,734
Bay de Noc	325,105	411,331	412,780	559,939	762,014	957,744	1,103,979	1,261,090	1,512,873
C.S. Mott	NA	4,243,498	4,587,016	5,279,794	6,459,700	6,834,122	7,962,358	8,803,937	9,842,441
Delta	2,213,919	2,593,942	3,152,410	3,933,488	5,284,089	6,248,105	7,478,975	9,476,020	9,750,426
Glen Oaks	NA	140,399	366,062	651,887	942,410	973,860	1,002,805	1,129,259	NA
Gogebic	NA	336,509	325,598	619,213	NA	NA	939,410	1,120,094	1,468,685
Grand Rapids	1,982,438	2,414,594	2,754,868	3,380,320	4,052,376	4,477,295	4,920,208	5,775,557	6,342,402
Henry Ford	NA	4,017,783	4,981,556	5,450,378	6,871,662	NA	7,324,987	7,549,111	9,604,254
Highland Park	1,342,441	2,037,901	2,847,442	3,610,697	3,351,054	3,327,851	3,310,886	3,706,500	3,932,000
Jackson	1,612,850	1,729,403	1,889,012	2,306,007	2,769,496	3,329,676	3,869,781	4,469,996	5,139,555
Kalamazoo	NA	687,372	1,182,249	1,062,642	2,197,314	2,919,525	3,401,375	3,932,341	4,435,102
Kellogg	1,020,382	1,485,990	1,655,895	1,895,801	2,324,821	2,785,032	3,157,455	3,811,531	3,878,590
Kirtland	NA	NA	308,535	363,202	NA	NA	748,565	1,003,789	1,235,076
Lake Michigan	1,057,305	1,272,248	2,291,821	1,514,619	1,891,591	2,376,668	2,859,258	2,871,871	2,915,620
Lansing	2,277,953	2,381,459	2,784,250	3,606,238	4,595,296	5,543,254	6,128,626	7,920,635	9,861,016
Macomb	3,310,133	4,768,556	5,728,959	8,637,171	10,863,179	12,234,899	13,015,598	14,534,974	15,918,543
Mid Michigan	112,088	63,986	201,767	350,426	577,804	643,136	790,790	951,930	1,059,366
Monroe	484,359	681,900	1,028,867	1,420,050	1,856,000	1,854,498	2,040,398	2,231,755	2,375,346
Montcalm	129,561	150,280	382,394	583,937	839,524	841,333	943,220	1,066,744	1,335,123
Muskegon	1,274,287	1,730,335	1,892,946	2,743,161	3,363,192	4,186,997	4,422,257	4,552,421	NA
North Central	248,314	305,408	438,614	1,095,905	873,253	934,923	973,635	1,294,202	NA
Northwestern	727,912	874,923	1,043,591	1,079,216	1,588,304	2,019,441	2,278,387	2,857,996	3,374,455
Oakland	4,084,145	5,093,325	5,961,161	12,964,163	16,400,068	14,261,045	15,177,810	15,401,642	17,007,526
St. Clair Co.	1,156,025	1,195,624	2,072,755	2,509,757	2,983,036	3,159,093	3,409,720	3,916,499	4,060,176
Schoolcraft	1,659,882	2,437,711	2,923,325	3,855,522	4,865,862	5,172,107	6,194,437	6,513,441	7,471,660

TABLE XXVIII, PUBLIC COMMUNITY COLLEGES: TOTAL EDUCATION AND GENERAL REVENUES 1965-1974 ($) Continued)

Institutions	1965-1966	1966-1967	1967-1968	1968-1969	1969-1970	1970-1971	1971-1972	1972-1973	1973-1974
Southwestern	169,982	399,775	646,466	753,242	1,015,411	1,151,110	1,234,455	1,507,940	1,845,249
Washtenaw	494,710	1,755,224	2,326,518	2,923,274	3,864,775	4,275,118	5,437,216	6,616,074	6,874,050
Wayne	-	-	-	124,798	2,614,432	5,205,437	7,471,327	9,719,388	11,582,904
West Shore	-	-	-	290,157	556,756	737,844	937,095	1,154,219	1,200,281
STATE TOTAL	26,081,668	43,788,991	55,003,502	74,650,528	96,232,417	114,862,940	120,241,432	137,259,973	153,281,335
FYES	711	970	1,066	1,214	1,366	1,485	1,513	1,717	1,871

* Most recent data is used where current year is not available.

TABLE XXIX

NON-PUBLIC COLLEGES AND UNIVERSITIES: TOTAL EDUCATION AND GENERAL REVENUES 1965-1974 ($)

Institution	1965-1966	1966-1967	1967-1968	1968-1969	1969-1970	1970-1971	1971-1972	1972-1973	1973-1974
Adrian	NA	1,878,277	2,202,397	2,510,973	2,585,545	2,976,009	3,008,373	2,928,118	3,194,083
Albion	2,906,228	3,343,854	3,770,563	4,229,372	4,827,202	4,848,232	4,927,964	5,121,699	NA
Alma	NA	NA	2,081,912	2,394,242	2,756,347	3,067,198	3,229,600	3,579,145	3,732,517
Andrews	2,509,412	3,108,841	3,576,186	4,242,870	4,546,908	4,946,670	5,674,955	5,747,931	6,563,143
Aquinas	1,135,264	1,595,204	1,696,239	1,972,782	2,058,925	2,409,575	2,730,865	3,060,897	3,462,649
Calvin	2,465,109	3,117,044	3,675,151	4,327,215	5,941,208	6,245,193	6,476,379	6,488,741	7,097,024
Calvin Seminary	NA	NA	NA	317,062	356,993	402,065	403,539	465,439	517,993
Cleary	NA	NA	NA	413,390	NA	432,990	402,697	449,871	475,947
Concordia Luth.	563,679	617,605	663,992	682,763	707,507	787,336	806,198	859,096	958,703
Cooley Law	NA	NA	NA	NA	NA	NA	NA	NA	531,279
Cranbrook Acad.	NA	NA	407,110	464,704	557,258	609,007	590,870	665,010	662,833
Davenport	499,809	581,236	693,712	888,827	854,726	1,171,306	1,300,098	1,439,046	1,551,244
Detroit Bible	269,942	220,585	229,501	258,421	286,344	311,352	351,250	346,869	333,562
Det.Coll. of Bus.	NA	385,771	320,908	755,416	751,890	947,554	1,003,932	1,092,311	1,051,274
Det.Coll. of Law	NA	368,301	372,000	464,000	424,705	612,647	730,831	894,467	1,173,124
Det.Inst. of Tech.	NA	1,453,735	1,439,123	1,439,858	1,284,216	1,498,877	1,621,662	1,972,659	2,450,054
Duns Scotus	202,849	255,479	274,249	161,040	255,533	322,805	445,245	411,301	562,709
Faithway Baptist	NA	NA	NA	NA	NA	NA	NA	NA	31,500
G.M.I.	8,575,578	9,325,309	10,835,404	NA	NA	NA	NA	NA	NA
Grace Bible	NA	NA	125,225	152,532	169,891	NA	226,475	218,917	263,126
G.R. Baptist	406,488	324,984	472,973	516,100	673,317	816,674	949,917	1,067,688	1,227,637
Great Lakes Bible	NA	NA	NA	NA	NA	NA	NA	NA	343,221
Hillsdale	1,480,826	1,876,901	2,303,581	2,491,679	2,618,901	2,990,464	3,493,548	3,992,814	3,575,272
Hope	2,321,922	2,308,172	3,093,336	3,615,585	4,266,518	4,727,677	4,845,009	5,454,873	4,859,969
John Wesley	211,531	235,400	246,838	255,896	234,478	246,272	286,825	932,349	678,400
Kalamazoo	NA	2,290,959	2,711,609	2,777,738	3,003,784	3,260,269	3,414,779	3,471,074	4,166,298
Lawrence In.Tech.	1,840,017	1,769,964	2,118,137	2,528,002	2,767,761	2,843,062	2,789,759	2,879,695	3,285,738

TABLE XXIX, NON-PUBLIC COLLEGES AND UNIVERSITIES: TOTAL EDUCATION AND GENERAL REVENUES 1965-1974 ($) (Continued)

Institution	1965-1966	1966-1967	1967-1968	1968-1969	1969-1970	1970-1971	1971-1972	1972-1973	1973-1974
Madonna	NA	NA	859,338	676,715	823,656	764,272	803,421	1,258,458	NA
Marygrove	1,540,774	1,700,287	1,780,693	1,496,484	1,332,015	1,513,332	1,769,128	1,935,012	2,170,554
Mercy	1,279,315	1,993,105	1,899,595	1,920,271	2,094,801	2,322,797	2,883,026	3,283,512	3,850,582
Merrill-Palmer	NA	NA	NA	NA	871,679	885,375	911,797	985,627	985,627
Mich. Christian	NA	717,289	347,065	349,992	343,505	NA	442,272	408,383	542,518
Muskegon Bus.	227,909	272,421	256,309	317,205	376,507	434,566	414,711	440,537	245,909
Nazareth	752,013	831,533	972,258	1,057,327	1,097,250	1,098,667	1,435,941	1,636,740	1,672,268
Northwood	1,964,532	1,491,859	2,050,641	1,644,544	1,453,275	2,010,318	1,685,163	2,172,038	2,797,772
Olivet	971,522	1,110,163	1,377,290	1,551,262	1,694,176	1,864,483	2,072,719	2,087,084	2,253,488
Reformed Bible	NA	68,634	136,000	155,300	249,500	206,167	246,995	292,630	343,587
Sacred Heart	434,780	633,236	511,085	692,800	808,770	824,300	746,800	764,200	693,880
Saint Mary's	NA	211,264	NA	384,056	408,814	375,720	483,595	367,193	411,088
Shaw	NA	NA	NA	NA	497,193	646,572	NA	1,867,712	2,438,324
Siena Hts.	NA	960,796	1,058,110	996,921	925,846	1,037,158	1,292,535	1,607,689	1,852,896
Soc.of Arts & Cfts.	NA	430,243	533,847	572,709	775,949	904,660	908,693	860,567	911,858
Spring Arbor	558,376	676,326	799,753	917,641	1,119,318	1,298,435	1,480,000	1,627,249	1,844,892
Suomi	373,973	538,046	577,227	673,463	717,739	827,773	948,630	922,543	940,947
U of D	8,317,859	10,608,187	10,669,313	12,694,870	13,514,884	15,765,117	15,757,067	16,411,264	16,751,202
Walsh College	193,751	201,784	212,000	193,260	197,600	184,579	346,453	341,173	402,404
West. Theo. Sem.	257,250	312,014	319,039	328,737	343,799	391,108	399,005	426,231	389,114
STATE TOTAL	33,684,130	48,495,499	67,880,978	64,439,024	71,989,623	80,342,029	98,705,293	93,235,752	100,627,366

* Most recent data is used where current year data is not available. GMI is not included in totals.

TABLE XXX
PUBLIC BACCALAUREATE INSTITUTIONS:
COMPETITIVE STATE SCHOLARSHIP AWARDS - 1965-1974

Institution	1965-1966	1966-1967	1967-1968	1968-1969	1969-1970	1970-1971	1971-1972	1972-1973	1973-1974
Central Mich.	65,324	78,828	104,540	374,061	378,389	337,773	464,939	422,015	426,325
Eastern Mich.	30,067	44,322	64,550	72,147	162,890	136,221	148,841	148,755	149,012
Ferris State	13,450	22,305	29 670	52,677	49,402	48,464	75,417	133,021	160,234
Grand Valley	6,998	23,305	24,095	60,702	83,305	107,634	162,977	184,990	164,686
Lake Superior	-	-	11,305	24,145	26,876	34,747	63,111	79,277	85,969
Mich. State	281,391	385,402	394,067	1,489,049	1,858,388	1,621,262	1,882,285	1,549,945	1,487,487
Mich. Tech.	45,125	55,741	56,450	196,957	209,338	231,215	267,006	262,312	296,787
Northern Mich.	30,944	40,060	40,060	123,974	123,134	146,999	200,752	200,334	208,605
Oakland	36,540	46,260	47,694	173,812	226,154	223,343	186,483	142,602	111,274
Saginaw Valley	-	-	4,050	6,769	13,074	26,065	29,736	26,326	22,710
U of M, Ann Arbor	201,284	252,410	285,410	870,938	1,131,998	1,134,459	1,296,288	1,233,789	1,201,579
U of M, Dearborn	-	-	696	7,155	8,300	8,675	32,455	66,655	57,699
U of M, Flint	4,000	4,522	6,496	32,800	38,410	58,848	64,567	57,703	47,310

TABLE XXX, PUBLIC BACCALAUREATE INSTITUTIONS: COMPETITIVE STATE SCHOLARSHIP AWARDS - 1965-1974 (Continued)

Institution	1965-1966	1966-1967	1967-1968	1968-1969	1969-1970	1970-1971	1971-1972	1972-1973	1973-1974
Wayne State	77,940	72,426	88,490	290,916	261,685	322,407	371,698	413,639	385,887
Western Mich.	71,990	80,700	101,810	286,913	338,772	352,699	394,924	390,050	314,954
Statewide Total	865,053	1,106,281	1,259,383	4,163,015	4,910,115	4,790,811	5,641,479	5,311,413	5,120,578
Actual Dollars Per FYES ($)	5.98	6.98	7.37	23.01	25.68	24.03	28.06	26.85	25.66

TABLE XXXI

PUBLIC COMMUNITY COLLEGES:

COMPETITIVE STATE SCHOLARSHIP AWARDS - 1965-1974

Institution	1965-1966	1966-1967	1967-1968	1968-1969	1969-1970	1970-1971	1971-1972	1972-1973	1973-1974
Alpena	2,740	1,470	3,440	7,184	8,877	8,430	9,950	15,518	12,829
Bay de Noc	392	2,913	4,590	3,330	3,915	8,050	11,285	9,890	13,670
Delta	5,095	7,205	7,695	15,780	14,915	18,230	22,131	44,487	38,628
Glen Oaks	-	-	1,417	2,765	963	4,305	2,400	2,708	2,760
Gogebic	1,501	2,828	6,027	9,960	8,861	15,492	15,723	14,882	20,860
Grand Rapids	13,940	13,408	30,540	30,059	28,017	41,685	61,395	66,018	73,608
Henry Ford	4,833	4,770	8,250	8,620	8,150	10,990	22,423	24,575	23,830
Highland Park	936	1,214	1,216	1,248	-	1,320	1,860	-	1,500
Jackson	3,156	5,178	5,782	13,341	9,047	19,057	11,846	15,546	15,801
Kalamazoo	-	-	-	600	1,280	3,390	4,525	10,900	13,855
Kellogg	4,220	6,540	9,268	9,725	8,314	14,255	17,117	21,508	20,535
Kirtland	-	-	-	570	935	572	2,427	1,499	1,805
Lake Michigan	3,400	4,950	3,610	3,860	2,375	4,405	6,403	9,320	8,175
Lansing	2,735	2,837	6,130	7,468	7,298	12,404	25,909	26,364	21,669
Macomb	550	3,100	5,380	8,537	5,190	13,749	15,909	31,892	26,440
Mid Michigan	-	-	-	710	990	1,388	1,135	1,630	2,060
Monroe	-	465	1,965	3,520	2,980	6,605	7,642	8,828	7,018
Montcalm	-	-	-	1,203	2,159	4,493	5,710	4,071	2,780
C.S. Mott	-	-	-	-	-	-	-	16,350	14,689
Muskegon	8,080	11,365	13,675	19,707	22,660	27,037	24,365	42,659	38,556
North Central	3,148	6,226	4,310	9,067	7,176	10,023	9,434	7,860	13,046
Northwestern Mich.	5,019	10,076	13,726	17,712	19,412	22,652	23,424	32,843	38,043
Oakland	309	515	609	2,060	5,108	9,206	9,047	5,410	11,650
St. Clair	-	-	-	7,070	8,955	9,719	14,102	16,829	22,220
Schoolcraft	538	2,044	1,750	5,344	3,741	6,445	9,319	10,555	10,454

TABLE XXXI, PUBLIC COMMUNITY COLLEGES: COMPETITIVE STATE SCHOLARSHIP AWARDS - 1965-1974 (Continued)

Institution	1965-1966	1966-1967	1967-1968	1968-1969	1969-1970	1970-1971	1971-1972	1972-1973	1973-1974
Southwestern Mich	-	480	2,500	2,412	1,822	1,550	2,977	7,074	6,421
Washtenaw	-	200	200	665	680	1,420	3,010	5,507	3,803
Wayne County	--	-	-	-	-	651	1,050	930	310
West Shore	-	-	-	-	200	3,470	7,256	8,070	4,860
State Totals	60,592	87,784	132,080	192,517	184,020	280,993	349,779	530,133	471,875
Actual Dollars Per FYES ($)	1.65	1.94	2.56	3.13	2.61	3.63	4.40	6.63	5.76

TABLE XXXII
INDEPENDENT COLLEGES AND UNIVERSITIES
COMPETITIVE STATE SCHOLARSHIPS AND TUITION GRANTS

Institution	1965-1966	1966-1967	1967-1968	1968-1969	1969-1970	1970-1971	1971-1972	1972-1973	1973-1974
Adrian	14,555	39,210	28,692	129,460	175,430	192,935	175,561	149,699	187,146
Albion	37,286	89,585	46,300	276,310	372,166	297,655	282,713	294,185	393,447
Alma	34,670	68,434	30,418	266,882	391,237	345,156	343,904	319,317	447,172
Andrews	27,580	60,570	18,818	172,371	218,724	201,769	218,794	209,343	288,357
Aquinas	45,790	106,530	49,780	315,745	373,209	347,195	326,880	345,164	461,562
Calvin	82,153	209,876	108,030	730,922	979,894	855,986	798,617	697,852	875,419
Calvin Sem.	-	-	-	-	-	-	-	-	-
Cleary	-	2,735	605	17,477	9,300	13,298	18,174	19,149	25,705
Concordia	230	2,810	5,540	7,668	12,998	17,782	26,716	43,787	69,823
Cranbrook	-	-	-	350	--	4,000	3,200	8,277	9,000
Davenport	-	75,332	7,340	132,312	147,912	173,992	203,382	232,280	291,587
Detroit Bible	-	380	468	1,014	2,642	2,320	4,769	2,966	2,575
Det.Coll. of Bus.	210	2,350	1,880	39,672	81,400	110,246	137,441	134,719	215,623
Det.Coll. of Law	-	-	-	-	-	6,050	18,570	39,345	58,640
Det.Inst. of Tech.	190	10,180	1,980	63,105	93,900	83,165	72,892	176,670	399,525
Duns Scotus	-	-	-	-	-	970	470	540	510
Gen. Motors Inst.	5,566	38,285	5,350	63,796	13,255	14,765	12,725	14,795	12,901
Grace Bible	-	384	-	260	1,268	504	300	2,700	3,362
Gr. Rapids Bap.	-	19,722	14,520	40,605	76,018	99,188	106,245	121,421	191,445
Great Lakes Bible	-	-	-	-	-	-	534	267	1,821
Hillsdale	3,890	6,020	6,170	25,329	44,948	47,962	51,987	66,286	87,548
Hope	41,235	70,030	33,800	291,237	393,412	359,195	347,697	335,607	433,443
John Wesley	-	-	-	-	-	-	-	115,254	176,973
Kalamazoo	52,390	76,621	48,765	197,373	248,497	212,360	219,273	216,535	296,384
Law.Inst.of Tech.	600	82,598	3,760	256,905	257,450	239,952	247,993	284,175	259,240

TABLE XXXII INDEPENDENT COLLEGES AND UNIVERSITIES: COMPETITIVE STATE SCHOLARSHIPS AND TUITION GRANTS (Continued)

Institution	1965-1966	1966-1967	1967-1968	1968-1969	1969-1970	1970-1971	1971-1972	1972-1973	1973-1974
Madonna	3,390	28,095	2,800	66,225	76,780	63,705	66,160	87,040	178,895
Marygrove	34,625	59,273	22,350	173,882	214,804	231,547	217,519	226,145	317,040
Mercy	5,655	60,910	16,932	163,763	234,940	309,262	343,387	122,550	592,785
Merrill Palmer	-	-	-	-	864	-	600	-	-
Mich. Christian	1,600	17,820	15,580	28,594	34,636	39,894	41,096	42,760	81,180
Muskegon Bus.	-	3,089	3,644	4,571	29,871	57,430	59,103	77,316	145,332
Nazareth	5,390	23,759	7,160	78,338	102,377	108,502	106,822	136,034	193,288
Northwood	800	48,407	2,120	79,047	83,945	77,894	86,335	131,475	220,903
Olivet	10,890	32,640	16,850	143,530	216,980	239,108	251,247	294,715	429,387
Reformed Bible	-	-	-	-	-	140	830	1,560	3,680
Sacred Heart	1,620	7,305	8,970	8,865	11,700	6,085	7,535	4,210	3,510
Saint Mary's	-	-	-	305	150	-	-	1,200	4,460
Shaw College	-	-	-	-	65,024	66,682	98,996	154,403	395,377
Siena Heights	5,810	22,295	6,300	54,485	60,725	64,761	78,035	107,980	176,229
Soc. of Arts	-	6,925	-	19,795	26,794	30,912	39,161	50,210	85,565
Spring Arbor	4,539	48,560	6,315	129,681	189,838	227,549	218,224	236,088	297,618
Suomi	5,371	29,860	4,450	61,397	87,440	90,003	103,990	112,080	138,820
U of D	143,069	207,636	130,285	970,672	1,372,053	1,503,886	1,474,144	1,521,543	1,855,841
Walsh	-	6,850	-	18,567	12,075	3,341	8,908	17,995	12,975
West. Theo.	-	-	-	-	-	-	-	-	-
Statewide Totals	569,104	1,565,076	645,572	5,030,480	6,714,596	6,752,446	9,219,127	7,505,897	10,322,093
Actual Dollars Per FTE ($)	14.92	36.64	15.50	118.60	159.57	159.99	213.48	168.94	216.25

Source: Student Financial Assistance Services, Michigan Department of Education

TABLE XXXIII

BACCALAUREATE INSTITUTIONS: PERCENT OF TOTAL ENROLLMENT COMPARED WITH PERCENT OF STATE COMPETITIVE SCHOLARSHIP GRANT DOLLARS RECEIVED

	Enrollment (%)	Competitive State Scholarship (%)
Central Michigan University	7.3	8.3
Eastern Michigan University	8.1	2.9
Ferris State College	4.7	3.1
Grand Valley State Colleges	2.7	3.2
Lake Superior State College	0.8	1.7
Michigan State University	20.3	29.0
Michigan Tech. University	2.7	5.8
Northern Michigan University	3.8	4.1
Oakland University	4.1	2.2
Saginaw Valley State College	0.9	0.5
University of Mich.-Ann Arbor	18.4	23.5
University of Mich.-Dearborn	1.3	1.1
University of Mich.-Flint	1.2	0.9
Wayne State University	13.5	7.5
Western Michigan University	10.2	6.2
TOTAL	100.0	100.0

TABLE XXXIV

COMMUNITY COLLEGES: PERCENT OF TOTAL ENROLLMENT COMPARED WITH PERCENT OF STATE COMPETITIVE SCHOLARSHIP GRANT DOLLARS RECEIVED

	Enrollment (%)	Competitive State Scholarship (%)
Alpena Community College	1.3	2.7
Bay de Noc Community College	0.8	2.9
C. S. Mott	6.3	8.2
Delta College	5.7	0.6
Glen Oaks Community College	0.7	4.4
Gogebic Community College	0.8	15.5
Grand Rapids Jr. College	5.1	5.1
Henry Ford Community College	7.5	0.3
Highland Park Community College	2.9	3.3
Jackson Community College	3.0	2.9
Kalamazoo Valley Community Coll.	3.0	4.4
Kellogg Community College	2.7	0.4
Kirtland Community College	0.7	1.7
Lake Michigan College	1.9	4.6
Lansing Community College	6.1	5.6
Macomb County Community College	12.0	0.4
Mid Michigan Community College	0.6	1.5
Monroe County Community College	1.3	0.6
Montcalm County Community Coll.	0.8	3.1
Muskegon Community College	2.9	8.2
North Central Mich. College	0.7	2.8
Northwestern Mich. College	2.1	8.1
Oakland Community College	10.9	2.5
St. Clair County Community Coll.	2.3	4.7
Schoolcraft College	4.7	2.2
Southwestern Michigan College	1.0	1.4
Washtenaw Community College	2.9	0.8
Wayne County Community College	8.7	0.1
West Shore Community College	0.6	1.0
TOTAL	100.0	100.0